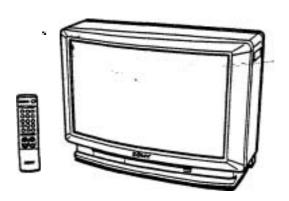
KV-W28MH11/W28MN11 KV-W32MH11/W32MN11

SERVICE MANUAL



GE Model

KV-W28MN11 Chassis No. SCC-H22A-A KV-W32MN11 Chassis No. SCC-H22B-A

HK Model

KV-W28MH11 Chassis No. SCC-H23B-A KV-W32MH11 Chassis No. SCC-H23A-A

WB Model KV-W32MH11 Chassis No. SCC-H24A-A

AG-1 CHASSIS

| MODELS OF THE SAME SERIES | | | | |
|---------------------------------------|--|--|--|--|
| KV-W28MH11/W28MN11 KV-W28MH2/32MH2 | | | | |
| KV-W32MH211/W25M111/W28MN31 | | | | |

SPECIFICATIONS

Power requirements

110-240V AC, 50/60Hz

Power consumption

240 W

Television system

B/G, I, D/K, M

Color system PAL, PAL 60, SECAM, NTSC4.43,

NTSC3.58

Stereo system NIC

NICAM Stereo B/G, I; A2 (German)

stereo B/G

Channel coverage

See "Channel coverage" at the bottom.

Antenna 75-ohm external antenna terminal for

VHF/UHF

Audio output (speaker)

15 W × 2

Number of terminal

Video Input: 4, Output: 1 Audio Input: 4, Output: 1

\$1 Video/\$ Video

Input: 4, Output: 1

Y: 1 Vp-p, 75 ohms, unbalanced, sync

negative,

C: 0.286 Vp-p, 75 ohms

Picture tube

HD Trinitron

Tube size (measured diagonally)

KV-W28: 28 inches KV-W32: 32 inches

Screen size (measured diagonally)

KV-W28: 66 cm .KV-W32: 76 cm



TRINITRON. COLOR TV

Dimensions (w/h/d)

KV-W28: 750 × 520 × 528 mm

KV-W32: 905 × 600 × 585 mm

Mass

KV-W28: 49.5 kg KV-W32: 73 kg . Accessories

Optional

Supplied Remote commander (1)

Size R6 (AA) battery (1)

Conversion mains plug

KV-W28: TV stand SU-W28 KV-W32: TV stand SU-W32

Design and specifications are subject to change without notice.

Channel coverage

M E/ASIA/CATV W EURO

| Receivable channel | Channel display |
|--------------------|-----------------|
| E-2 to E-12 | C02 to C12 |
| E-21 to E-69 | C21 to C69 |
| S-01 to S-03 | 542 to S44 |
| S-1 to S-41 | S01 to S41 |
| Indonesia | |
| 1A | C01 |
| 2 to 11 | C03 to C12 |
| Morocco | |
| M-4 to M-7 | C70 to C73 |
| M-8 to M-10 | C8 to C10 |
| New Zealand | |
| 1 | C01 |
| 2 to 11 | C03 to C12 |
| 27 to 62 | C27 to C62 |
| | - - |

HK/UK

| Receivable channel | Channel display |
|--------------------|-----------------|
| Hong Kong, United | Kingdom |
| B-21 to B-68 | C21 to C68 |
| ireland | |
| A to J | C01 to C09 |
| South Africa | |
| 4 to 13 | C04 to C13 |
| 21 to 68 | C21 to C68 |

AMERICA/CATV AMERICA

| Receivable channel | Channel displa |
|--------------------|----------------|
| 2 to 79 | C02 to C79 |
| A-1 | S99 |
| A-2 | S98 |
| A-3 | S97 |
| A-4 | S96 |
| A-5 | S95 |
| A-6 | S06 |
| A-7 | S05 |
| A-8 | S01 |
| A to W | S14 to S36 |
| AA to CCC | S37 to S65 |

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK & ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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SECTION 1 GENERAL

the Operating Instruction Manual. The page numbers of the The operating instructions mentioned here are partial abstracts from Operating Instruction Manual remein as in the manual.

Getting Started

WARNING

To prevent fire or shock hazard, do not expose the TV Dangerously high voltages are present inside the TV. Do not open the cabinet. Refer servicing to qualified to rain or moisture. personnel only.

For general safety:

- · Do not expose the TV to rain or moisture.
 - Do not open the rear cover.

For safe installation:

Do not block the ventilation openings.

Changing the menu language

8 Presetting channels

Introducing the menu

Getting Started

- . Do not install the TV in hot, humid or excessively
 - dusty places.
- Do not install the TV where it may be exposed to mechanical vibrations.

For safe operations:

- Do not operate the TV on anything but 110-240 V
- Do not operate the TV if any liquid or solid object falls in it—have it checked immediately.
- · Do not keep the TV plugged in if you are not going to

15 Selecting the sound mode 16 Selecting a stereo or bilingual program 12 Using the Picture-in-Picture features 10 Watching the picture in wide mode

13 Selecting the picture mode

Watching the TV Operations

21 Setting the remote command mode

17 Viewing teletext
19 Customizing the TV

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22 Connections

Back Specifications cover

• Do not pull the power cord to disconnect the TV. use it for several days. Pull it out by the plug.

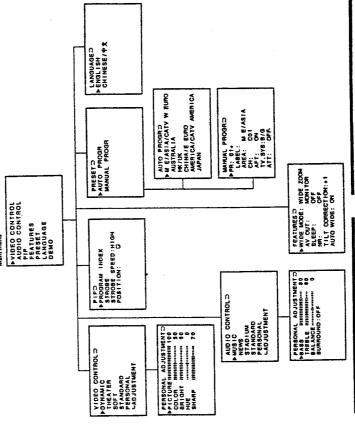
Avoid touching the screen surface and take care not to scratch it with hard objects.

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Introducing the

menn

You can preset channels and set the wide mode, picture quality, sound, and other settings using the on-screen menus. You can use the buttons on both remote commander and the TV to operate the menus.



Getting back to the previous menu

Press Δ + or ∇ – to move the cursor (\triangleright) to the first line (\supset) of each menu (except for the main menu), and press ENTER.

Cancelling the menu screen

Press MENU. Notes

- If more than 60 seconds elapse after you press a button, the menu screen disappears automatically.
 DeDMO in the main menu briefly introduces the main features available for the TV. Press any button on the temote commander to stop this function.

5. ER

6.EN Getting Started







Presetting channels



5 Press ENTER.

channels manually or skip program positions (pages 19 You can preset channels using the buttons on the TV as

and 20).

You can preset TV channels easily by storing all the receivable channels automatically. You can also preset

LANGUAGED ENGLISH FCHINESE/#X

F-1

If you prefer Chinese to English, you can change the menu language. You can use the buttons on both the remote commander and the TV.

@ •••

5 Press △ + or ▽ - to select CHINESE.

AUTO PROBRO
NE IASIA/CATV W EURO
AUSTRALIA
HK/UK
CHINA/E EURO
AMERICA/CATV AMERICA

6 Press $\triangle + or \nabla - to$ select your area (channel For the areas allocated in each channel system, see "Channel allocation" on page 24. system).

You can preset up to 100 TV channels in numerical

京本 水戸/ENGL 18H マサガ

6 Press ENTER.

sequence from program position 1.

Presetting channels automatically

well as those on the remote commander.



- A+ Or V-

7 Press MENU to return to the normal screen.

1 Press POWER on the TV.

AUTO PROGRAMASTALIA
NE LASIA/CATV W EURO
AUSTRALIA
HK/UK
PCHINA/E EURO
JAPAN







7 Press ENTER.

1 Press MENU.

AUDIO CONTROL AUDIO CONTROL FEATURES PRESET LANGUAGE DEMO

Presetting starts from program 1.

3 Press ∆ + or ∇ - to move the cursor (▶) to

LANGUAGE.

VIDEO CONTROL AUDIO CONTROL PIP FEATURES PRESET LANGUAGE DEMO

AUDIO CONTROL

2 Press MENU.

PIP FEATURES PRESET LANGUAGE DEMO

2 Press $\Delta + \text{or } \nabla - \text{to move the cursor (} \triangleright \text{) to}$

PRESET.

VIDEO CONTROL AUDIO CONTROL PIP FEATURES PRESET LANGUAGE DEMO

3 Press ENTER.

PRESETO AUTO PROGRIMANUAL PROGR

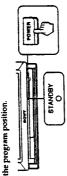
8-EN | Getting Started

Getting Started | 7-EN

POWER

Watching the TV

Select the TV program you want to watch. Press the number buttons or PROGR +/-. The TV appears. When the STANDBY indicator on the front of the TV is not lit, press POWER on the TV, and select turns on automatically and the selected program



To select a program position directly Press the number buttons.



To select a two-digit program position, press "-t-." For example, to select program position 25, press "+-" and then "2" and "5" before the number buttons.



Press PROGR +/- until the program position you To scan through program positions want appears.



(two-digit number for VHF/UHF channels, three-digit number for cable TV channels). For example, to select the VHF/UHF channel 4, press C, 0 then 4. cable TV channels), then press the number buttons Press C (once for VHF/UHF channels, twice for To select a channel directly

2 Press VOL +/- to adjust the volume.

Displaying on-screen information

Press DISP.



Switching off the TV

To switch off the TV temporarily, press POWER on the remote commander.
The STANDBY indicator lights.

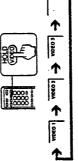
1



To switch off the TV completely, press POWER on the

Watching the video input

Press VIDEO/HOLD.



4 Press △ + or ▽ - until the time (in minutes)

you want appears.

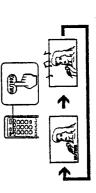
3 Press △ + or ∇ – to move the cursor (►) to SLEEP, and press ENTER.

To watch TV, press TV, the number buttons or PROGR



Muting the sound

Press MUTING.



10-EN | Operations 9 EN Operations

picture in wide mode

You can enjoy a variety of wide-mode pictures. Select the appropriate mode for the type of picture. Typical uses are as follows.

You can select wide mode using the menu as well as the buttons on the remote commander. Select WIDE MODE from the FEATURES menu, then select the desired mode

When you press DISP, the on-screen display shows the picture, sound and wide mode settings as well, all of which disappear after three seconds.

Viewing regular TV programs

Normally, use widezoom mode.

Press WIDEZOOM.

You can set the TV to turn off automatically after the

period of time you set.

Press MENU.

Setting the Sleep Timer

Contract of the second



Press Δ + or ∇ – to move the cursor (P) to FEATURES, and press ENTER.





To view a picture in the conventional size, press NORMAL.

WIDE WOOE WIDE AV OUT: WON!

WIDE WODE: WIDE AV CUT: BON!

After 66 minutes

After 30

To cancel the Sleep Timer, select OFF, or turn the TV off.

5 Press ENTER.

Viewing a movie picture with black bands

Use zoom or subtitle mode to view a movie picture with black bands.

Press ZOOM.



Press FULL.

When you view a video game screen with dynamic effect, use full mode.

Viewing a video game screen

Hallo Anna . 1 を行

When the subtitles are lost in zoom mode, press SUBTITLE.

Conventional picture (in normal mode)



picture scrolls up or down within the range of -5 to +5. When the subtitles are lost even in subtitle mode, you You can also use the scroll function in widexxxxm and can scroll the picture up or down to view them. The zoom modes. Using the scroll function in widezwam mode changes the vertical size of the picture. To scroll the picture up or down

Press SCROLL



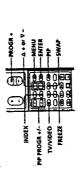
2 Press $\Delta + \text{or } \nabla - \text{to adjust the position of}$ the picture.



Using the Picture-in-**Picture features** If you display the PIP screen in zoom mode or scroll the picture with the PIP screen in zoom mode or subtitle mode, the PIP screen may be lost. However, this does not indicate a

You can display a Picture-in-Picture (PIP) screen (small picture) within the main picture of a TV program or a video input.

For the KV-W28, you have to use the connected VCR's built-in tuner to enjoy two different TV programs simultaneously.



8

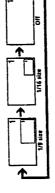
Displaying PIP

When AUTO WIDE is set to ON, the factory setting, the full mode if an SI Video signal is received. If you want

To switch the auto wide function

TV automatically displays the picture on the screen in to select another mode for the signal, set AUTO WIDE

Press PIP.



Selecting a TV program or video input in the

Press Δ + or ∇ - to move the cursor (\triangleright) to Press Δ + or ∇ – to move the cursor (\blacktriangleright) to

1 Press MENU.

to OFF.

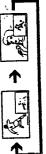
Press Δ + or ∇ - to select OFF, and press

AUTO WIDE, and press ENTER. FEATURES, and press ENTER.

For the KV-W28, select a TV program with the PROGR To select a TV program, press PIP PROGR +/- (yelkow To select a video input, press TV/VIDEO. +/- buttons on the connected VCR. buttons) for the KV-W32.

Swapping pictures between the main and PIP screens

Press SWAP.



12-EN | Operations

Changing the position of the PIP screen

1 Press MENU.

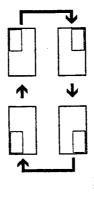
VIDEO CONTROL FEATURES PRESET LANGUAGE DEMO

2 Press △ + or ∇ – to move the cursor (►) to PIP, and press ENTER.

PIPD PROGRAM INDEX STROBE STROBE POSITION: U

3 Press △ + or ∇ - to move the cursor (►) to POSITION, and press ENTER.

Pressing Δ + changes the position as shown below. Pressing V - changes the position in reverse order. 4 Press △ + or ▽ - to select the position you



If you display the PIP screen in zoom or subtitle mode, you can move the PIP screen only to the lower left or the lower right.

Freezing the PIP screen

Press FREEZE.

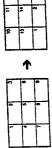
To restore the normal picture, press FREEZE again.

Checking all the preset programs (Program Index)

Press INDEX.

sequential programs appear. After all the preset programs are displayed, the programs switch the picture with the sound for each five seconds. The nine preset programs appear in the separated screen in sequence, switching the picture for each second. The sound is muted. Then next nine

Pressing PROGR + also switches to the next nine programs.



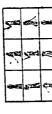
To restore the normal picture

Press the number buttons which you want to watch (e.g., for program 25, press -/-., 2 and 5). Pressing INDEX also restores the normal picture.

- You can also display nine sequential TV programs using the You can also display nine sequential TV programs using the menu, then press ENTER.
 - If you display different TV systems in the Program Index If you display different screens may be different.

Displaying frame-by-frame pictures (Strobe)

- 1 Press MENU.
- \boldsymbol{Z} . Press Δ + or ∇ to move the cursor (P) to
- 3 Press $\triangle + \text{or } \nabla \text{to move the cursor (}^{\triangleright}$) to STROBE, and press ENTER. PIP, and press ENTER.



To select the strobe speed

Select STROBE SPEED from the PIP menu, and press ENTER. Then select HIGH (3 seconds), MIDIME (7 seconds) or LOW (12 seconds) with Δ + or ∇ –, and press ENTER.

To restore the normal picture

Select STROBE from the PIP menu again, and press ENTER.

VIDEO, PROGR +/-, POWER or Wide mode buttons. You can also restore the normal picture with TV,

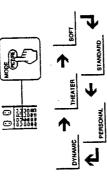
. You can hear the normal sound when using the strabe feature.

- When you display a VCR picture in the PIP screen at a speed other than normal speed, the picture may be notly depending on the VCR. The picture can be improved by selecting the smaller size of the PIP screen. Notes on PIP features
 - If you display different color systems in the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be noisy. This is not caused by the malfunction of the TV.

Selecting the picture

mode

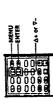
You can select the picture mode using the menu as well commander. Select VIDEO CONTROL from the main as the PICTURE MODE button on the remote menu, then select the desired mode. Press PICTURE MODE until the mode you want appears on the screen,



| To | Display more contrast picture | Display darker and finely detailed picture suitable for movies | Display sufter pictore suitable for video games or for viewing in a dark | rowith | Display normal contrast picture | Display the picture that is adjusted using ADJUSTMENT in the VIDEO CONTROL menu | |
|--------|-------------------------------|--|--|--------|---------------------------------|---|--|
| Select | JE J | | SOFT | - | STANDARD | PERSONAL | |

Adjusting the picture setting (ADJUSTMENT)

You can adjust the picture quality to sult your taste with the ADJUSTMENT option. The adjusted settings are stored in the PERSONAL option.



1 Press MENU.

AUDIO CONTROL FEATURES PRESET LANGUAGE DEMO

2 Press △ + or ∇ - to move the cursor (►) to VIDEO CONTROL, and press ENTER.

| <u>-</u> | | | | | | | _ |
|---------------|-----------|---------|------|----------|----------|-------------|---|
| VIDEO CONTROL | P DYNAMIC | THEATER | SOFT | STANDARD | PERSONAL | LADJUSTMENT | |

3 Press △ + or ∇ – to move the cursor (▶) to ADJUSTMENT, and press ENTER.

| AD JUSTMENT DO HINIMAN 100 | 2 |
|--|-------|
| HENDERSTER AND | |
| SONA | SHARP |
| | |

Press Δ + or ∇ – to move the cursor (P) to the item you want to adjust, and press

ENTER.

5 Press △ + or ∇ – to adjust the item, and press ENTER.

| Press ∇ - to | Decrease picture contrast | Decrease color intensity | Darken the picture | Make skin tones become reddish | Soften the picture |
|--------------|-----------------------------------|-----------------------------|----------------------|------------------------------------|---------------------|
| Press ∆ + to | PICTURE Increase picture contrast | Increase color intensity | Brighten the picture | Make skin tones become greenish | Sharpen the picture |
| tem | CTURE | COLOR | BRICHT | HUE | SHARP |

6 To adjust other items, repeat steps 4 and 5.

7 Press MENU to return to the normal screen.

· You can adjust HUE for NTSC color system only

Reducing the noise of the picture (NR)

You can reduce the noise level of the picture when the TV receives a weak signal or when you play a video tape that is in poor condition.

1 Press MENU.

2 Press ∆ + or ∇ - to select FEATURES, and press ENTER.

| ž | MONITOR OFF | | |
|-----------|-------------------|-------------------|--|
| FEATURES: | AV OUT: SLEEP: | NR: TILT CORRE | |
| | | • | |

3 Press Δ + or ∇ - to select NR, and press ENTER.

4 Press △ + or ▽ - to select ON, and press ENTER.

To turn the noise reduction off, select OFF and press ENTER.

receiving programs through the $_{ m H}$ (antenna) If the color of the picture is abnormal when

Press COLOR SYSTEM on the TV or change the TV system setting from the menu as described below until the color becomes normal.

- Press $\Delta + \text{or } \nabla \text{to move the cursor } (\mathbb{P})$ to 1 Press MENU.
- Press $\Delta + \text{or } \nabla \text{to move the cursor (}^{\triangleright}$) to MANUAL PROGR, and press ENTER. PRESET, and press ENTER.
- 4 Press △ + or ▽ to move the cursor (►) to TV
 - Press Δ + or ∇ to change the TV system SYS, and press ENTER.

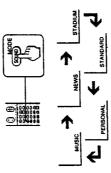
until the color becomes normal.

Normally set COLOR SYSTEM to AUTO.

Selecting the sound mode

You can select the sound mode using the menu as well commander. Select AUDIO CONTROL from the main as the SOUND MODE button on the remote menu, then select the desired mode.

Press SOUND MODE until the mode you want appears on the screen.



| Select | To |
|----------|--|
| MUSIC | Listen to music programs. It gives sound with a live concert effect. |
| NEWS | Listen to news program. A person's voice can be heard clearly. |
| STADIUM | Listen to sports program. It gives sound with a sports stadium effect. |
| STANDARD | Listen to sound other than music, news or sports program. |
| PERSONAL | Listen to the sound that is adjusted using ADJUSTMENT in the AUDIO CONTROL menu. |

Adjusting the sound setting (ADJUSTMENT)

You can adjust the sound quality to suit your taste with the ADJUSTMENT option. The adjusted settings are stored in the PERSONAL option.

| - MENU | A+ or V- |
|------------------------|----------------------------------|
| 9 9 0 60 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 |

1 Press MENU.

| 2555528 | | VIDEO CONTROL | UDIO CONT | FEATURES | PRESET | LANGUAGE | |
|---------|--|---------------|-----------|----------|--------|----------|--|
|---------|--|---------------|-----------|----------|--------|----------|--|

2 Press Δ + or ∇ – to move the cursor (P) to AUDIO CONTROL, and press ENTER.

| CONTROL | | s & | TMENT |
|---------|------|----------|-------------|
| 0 | NEWS | STANDARD | LADJUSTMENT |

3 Press \triangle + or ∇ – to move the cursor (P) to ADJUSTMENT, and press ENTER.

| PERSONAL ADJUSTMENT; PBASS BHUMINITHIN: 80 TREBLE BHUMINITHIN: 00 BALANCE Annument 00 SURROUMD: OFF | |
|---|--|
| 7 1081V | |
| A 1 1 0 0 | |
| SS EBLE LANCE | |
| # # # # # # # # # # # # # # # # # # # | |

Press Δ + or ∇ – to move the cursor (\blacktriangleright) to the item you want to adjust, and press ENTER.

 \boldsymbol{S} Press Δ + or ∇ – to adjust the item, and press ENTER.

| Item | Press △ + to | Press V - to |
|---------|--|--|
| BASS | Increase the bass sound | Decrease the bass sound |
| TREBLE | Increase the treble sound | Decrease the treble sound |
| BALANCE | BALANCE Increase the volume Increase the volume of right speaker of left speaker | Increase the volume of left speaker |

6 To adjust other items, repeat steps 4 and 5.

 ${f 7}$ Press MENU to return to the normal screen.

Operations | 15-EN

16-EN | Operations

Listening to surround sound

You can enjoy a surround sound effect that is like being in a movie theater or a concert hall when receiving stereo signals.

1 Press MENU.

Press $\triangle + \text{or } \nabla - \text{ to move the cursor } (\triangleright)$ to AUDIO CONTROL, and press ENTER. Press \triangle + or ∇ - to move the cursor (P) to ADJUSTMENT, and press ENTER.

| l | ADJUSTMENTO |
|---|---|
| ı | ¥ : : : |
| l | PERSONAL ADJUSTM BASS MERHHAMM TREBLE MERHHAMM BALANCE MMANINEM BALANCE MMANINEM |
| ١ | PERSONAL ADJ SAES MINIMIN PREBLE MINIMIN SALANCE MINIMINIMINIMINIMINIMINIMINIMINIMINIMIN |
| l | ¥ # \$ |
| ١ | PERSONAL BABS N TREBLE N BALANCE: |
| ١ | PERSO |
| L | |

Press $\triangle + \text{or } \nabla - \text{ to move the cursor (} \triangleright$) to SURROUND, and press ENTER.

4

5 Press $\triangle + \text{or } \nabla - \text{ to select ON, and press}$ ENTER. If the sound is distorted or noisy when receiving programs through the 'I' (antenna) terminal

Change the TV system setting as follows until the sound becomes clear.

Press MENU.

Press $\Delta + \text{or } \nabla \sim$ to move the cursor (P) to PRESET, and press ENTER.

Press \triangle + or ∇ – to move the cursor (\triangleright) to MANUAL PROGR, and press ENTER.

Press Δ + or ∇ – to move the cursor (\triangleright) to TV SYS, and press ENTER.

Press $\Delta + \text{or } \nabla - \text{to change the TV system}$

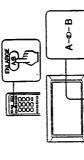
until the sound becomes clear.

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual program of NICAM and A2 (German) stereo systems. The initial setting is stereo sound.

Press A/B/ENLARGE repeatedly until you

receive the sound you want.
The sound changes and the corresponding indicator lights up as follows:



| ram: | Selected sound (indicator lit) |
|--------------------|-----------------------------------|
| g a NICAM program: | On-screen Display |
| When receiving | Broadcasting |

| o) stereo omeram: | A2 (Gorman | When receiving an A2 (German) stereo program: |
|----------------------------|------------|---|
| NICAM monaural (A) Regular | NICAM | NICAM monaural |
| A → B → Regular (A) (B) | NICAM | NICAM bilingual |
| Stereo - Regular (A and B) | NICAM | NICAM stereo |
| | | |

|) sterco program: | Selected sound (Indicator lit) | → Steren → Monaural- (A and B) | (A) (B) |
|---|-----------------------------------|-----------------------------------|--------------------------|
| 42 (German | On-screen display | STEREO | ł |
| When receiving an A2 (German) sterco program: | Broadcasting | A2 (German) stereo | A2 (German) bilingual |

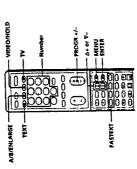
Receiving area for NICAM and A2 (German)

| | Receiving area | Hong Kong, Singapore, New Zealand, etc. | A2 (German) stereo Australia, Malaysia, Thailand, etc. |
|-----------------|----------------|--|--|
| stereo programs | System | NICAM | A2 (German) stereo |

If the signal is very weak, the sound becomes monaural.
 If the atrees sound is noisy, select 'regular" or "mono".
 The sound becomes monaural, however, the noise will be reduced.

Viewing Teletext

information such as weather forecasts or news at any TV stations broadcast an information service called time. Some of the features, however, may not be feletext service allows you to receive various available depending on the Teletext service. Feletext via a local TV channel.



Displaying Teletext

- Teletext broadcast you want to watch. Select a TV channel which carries the
- displayed. If there is no Teletext broadcast, P100 A Teletext page (normally the index page) is appears in the top left corner of the screen. 2 Press TEXT to display the Teletext.

To switch Teletext off, press TV.

Superimposing a Teletext page on the IV picture

Press TEXT.

Each time you press TEXT, the screen changes as - Teletext → Teletext and TV → TV Operations | 17-EN

Checking the contents of a Teletext service (INDEX)

When Teletext is switched on, you can display the Teletext menu.

1 Press MENU.

PINDEX TEXT CLEAR SUBTITLES REVER TIME PAGE SUBPAGE

Press Δ + or ∇ - to move the cursor (P) to INDEX, and press ENTER.

Selecting a Teletext page

digit page number of the Teletext number you Press the number buttons to enter the three-

If you make a mistake, re-enter the correct page

To access the next or previous page, press PROGR +/-.

Preventing a Teletext page from being updated (HOLD)

A Teletext page may consist of several subpages. You can stop the page scrolling in order to read the text at

HOLD appears in the top left corner of the screen. Press VIDEO/HOLD.

your own pace.

To resume normal Teletext operation, press TEXT.

Using FASTEXT

broadcast, a color-coded menu appears at the bottom of red (TV/VIDEO), green (FREEZE), yellow (SWAP) and the screen. The colors of the menu correspond to the blue (PIP) buttons on the remote commander. These page that uses FASTEXT. When a FASTEXT page is colored buttons function as the FASTEXT buttons in This feature allows you to quickly access a Teletext

press the colored button which corresponds to

The page is displayed after a few seconds.

Enlarging the Teletext display

Each time you press A/B/ENLARGE, the Teletext display changes as follows:

→Erdarge upper half →Endarge lower half →Normal size →

Revealing concealed information (REVEAL)

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option discloses the information.

1 Press MENU.

- Press Δ + or ∇ to move the cursor (P) to REVEAL, and press ENTER.
- Press Δ + or ∇ to select ON, and press

To conceal the information again, select OFF.

Watching a TV program while waiting for a requested Teletext page (TEXT CLEAR)

- I select the Teletext page to which you want to refer.
- 2 Press MENU.
- 3 Press △ + or ∇ to move the cursor (►) to TEXT CLEAR, and press ENTER.
- 4 When the page number is displayed on the screen, press TEXT to switch the Teletext

To restore the normal Teletext reception, press TEXT.

Displaying subtitles (SUBTITLES)

Your Teletext service informs you if a TV program is subtitled.

7 Press MENU.

2 Press △ + or ▽ - to move the cursor (►) to SUBTITLES, and press ENTER. If the subtities are not broadcast on page 888, select the subtitle page using the number buttons.

18-EN | Operations

Displaying a Teletext page at the requested time (TIME PAGE)

You can display a time-coded page (e.g. an alarm page) at the time you preset.

Press MENU.

- Z Press △ + or ▽ to move the cursor (►) to TIME PAGE, and press ENTER.
- digits for the desired time. For example, to 3 Press the number buttons to enter four enter 7:30, press 0,7,3 and 0.

At the requested time, the page appears on the screen.

To restore the normal Teletext reception, press TEXT.

Displaying a particular page among several subpages (SUBPAGE)

1 Press MENU.

- Press \triangle + or ∇ to move the cursor (\blacktriangleright) to SUBPAGE, and press ENTER.
- For example, to display the second page of Press the number buttons or PROGR +/- to enter four digits for the desired subpage. a sequence, press 0, 0, 0 and 2.

SXXXX

Customizing the TV

Using the AV OUT (advance rec-out) terminal

The S Video output can be used only when MONITOR You can select the output signal from the MON/TV is selected. However, it cannot be used in Program Index or Strobe mode even though MONITOR is OUT jacks at the rear of the TV.

Press MENU.

Press Δ + or ∇ – to select FEATURES, and press ENTER.

FEATURES ON PWIDE MODE TOOM AV OUT: MONITOR SLEEP: OFF NA: TLT CORRECTION: +1 AUTO WIDE: ON

Press Δ + or ∇ – to select AV OUT, and press

Press Δ + or ∇ – to select the output signal, and press ENTER

| 10 | Output the TV signal. | Output the signal of the picture you are | watching as a monitor. |
|--------|-----------------------|--|------------------------|
| Select | 2 | MONITOR | |

Selecting a TV program output from MONIV OUT jacks while using the PIP feature
• For the KV-WIB, when watching a TV program in the main scene use PROGR +/-. When watching a video input in the main scene and a TV program in the PIP screen use PIP PROGR +/- on the remole commander. For the KV-W32, use PROGR +/-.

Do not change the channel white recording with a VCR through the MON/TV OUT jacks. If you change the channel. it also changes the channel you are recording.

Adjusting the tilt of the picture

to the TV screen. This may happen due to the direction of the earth's magnetic fields in relation to the position You can adjust the tilt of the picture if it is not aligned of the TV.

1 Press MENU.

2 Press $\triangle + \text{or } \nabla - \text{to select FEATURES, and}$ press ENTER

FEATURES 3

WIDE MODE: WIDE ZOOM
AV OUT: MONITOR
SLEEP: OFF
NT: TLT CORRECTION +1
AUTO WIDE: ON

Press Δ + or ∇ – to select TILT CORRECTION, and press ENTER. m

Press Δ + or ∇ – to select the most suitable value to align the picture position, and press ENTER. 4

TILT CORRECTION:

-5--4--3--2--1-0-+1-+2-+3-+4-+5 press A+ press V --

Presetting channels manually

For example, preset a channel in program position 8. To change the program position for a channel or to receive a channel with a weak signal, preset the channel manually.

1 Press MENU.

2 Press △ + or ∇ - to move the cursor (►) to PRESET, and press ENTER. PRESET S AUTO PROGR MANUAL PROGR

Press $\Delta+or \; \nabla-to$ select MANUAL PROGR, and press ENTER. m

ANEA: M E/ABIA CH: COI AFT: ON TV.3YS:8/G ATT: OFF MANUAL PROGRO

Operations | 19-EN

4 Select the program position to which you want to preset a channel.

- (1) Press Δ + or ∇ to select PR, and press ENTER. (2) Press Δ + or ∇ to select 8.
 - You can also select the program position with PROGR +/~ or the number buttons (e.g. for program 24, press 4--, 2 and 4).
 - (3) Press ENTER.

For the areas allocated in each channel system, see 5 Select your area (channel system).

- (1) Press ∆ + or ∇ to select AREA, and press "Channel allocation" on page 24.
- (2) Press ∆ + or ∇ to select your area, and press ENTER. ENTER.

6 Select a channel which you want to preset. (1) Press $\Delta + \text{ or } \nabla - \text{ to select CH}$, and press

- (2) Press ∆ + or ∇ until the channel you want appears on the screen.
- You can also select the channel directly using the number buttons. Press C (once for VHF/ UHF channels, twice for cable TV channels), then the number buttons (e.g., for channel 5,
 - press 0 and 5). (3) Press ENTER.

To preset other channels Repeat steps 4 to 6.

Disabling program positions

By disabling unused or unwanted program positions, you can skip those positions when you press PROCR

For example, disable program position 8.

1 Display the MANUAL PROGR menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 19.)

- Press Δ + or ∇ to move the cursor (\triangleright) to PR, and press ENTER.
- 3 Press PROGR + or until 8 appears.
- To skip other program positions, repeat steps 3 and 4 Press △ + or ▽ - to select "-", and press ENTER.

To restore the skipped program positions in step 4 above, press Δ + or ∇ - to select "+," and press ENTER.

20-EN | Operations

Customizing channel names

You can caption each channel number using up to five etters to be displayed on the screen.

- 1 Display the MANUAL PROGR menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 19.)
- position you want to caption and press Press Δ + or ∇ - to select the program PR, and press ENTER. m

2 Press △ + or ▽ - to move the cursor (►) to

Press $\triangle + \text{or } \nabla - \text{to move the cursor } \{P\}$ to

LABEL, and press ENTER.

4

- Press $\Delta + \text{or } \nabla \text{to select a letter or number,}$ and press ENTER for each caption space (up Each time you press Δ + or ∇ -, the letter (number) For the caption space you want to leave blank, changes as shown below. +→ (sbace) select "___ to five.)
- Repeat steps 2 to 5 to caption other channels.

In step 5 above, select "_ (space)." To erase a caption

Manual fine-tuning

distorted, you can use the manual fine-tuning function operating. However, if the picture of a channel is for the channel to obtain better picture reception. Normally, the automatic fine-tuning (AFT) is

- 1 Display the MANUAL PROGR menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 19.)
- Press \triangle + or ∇ to move the cursor (\triangleright) to PR, and press ENTER.
- which you want to manually fine-tune, and position corresponding to the channel Press Δ + or ∇ – to select the program press ENTER.

Additional Information

4 Press △ + or ∇ - to move the cursor (►) to AFT, and press ENIER.

- 5 Press △ + or ▽ to select OFF, and press ENTER.
- 6 Press △ + or V to fine-tune the channel so that you get the best TV reception.
 As you press these buttons, the frequency changes from –128 to +128.
- 7 After fine-tuning, press ENTER. The line-tuned level is stored.

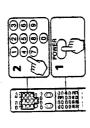
Improving TV signal

If the reception signal is very strong, you can attenuate it to obtain better picture reception.

- 1 Display the MANUAL PROGR menu. (Follow steps 1 to 3 in "Presetting channels manually" on page 19.)
- 2 Press △ + or ▽ to move the cursor (►) to PR, and press ENTER.
- 3 Press ∆ + or ∇ − to select the program position corresponding to the channel whose signal is very strong, and press
- Press Δ + or ∇ to move the cursor (\blacktriangleright) to ATT, and press ENTER.
- S press △ + or ¬ to select ON, and press enter.

Setting the remote command mode

You can use the supplied remote commander to operate the TV and Sony video equipment, such as a VCR or mutil-disc player. To operate Sony video equipment, first set the remote command mode for the video equipment you want to use.

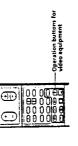


1 Press and hold the POWER button in the VCR control area.

2 Press the number buttons that correspond to the remote command mode.

| Mode number Remote command mode | n 1 VIR1 (e.g., Beta format VCR) | | n 3 VIR3 (e.g., VHS format VCR) | n 4 NIDP (multi-disc player) |
|---------------------------------|----------------------------------|----------|---------------------------------|------------------------------|
| Mode nu buttons | and then | and then | and then. | 0 and then |

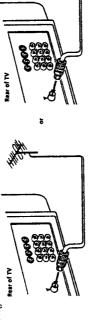
After setting the remote command mode, you can use the following buttons to operate the video



Connections

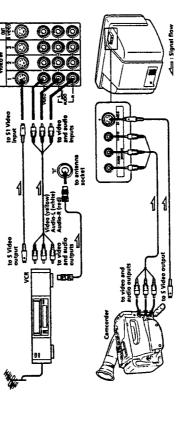
Connecting a VHF antenna or a combination VHF/UHF antenna—75-ohm coaxial cable (round)

Attach an optional IEC antunna connector to the 75-ohm coaxial cable. Plug the connector into the If (antenna) terminal at the rear of the TV.



Connecting optional equipment

You can connect optional audio/video equipment to this TV such as a VCR, multi-disc player, camcorder, headphones, or stereo system.



When connecting a monaural VCR Connect the yellow plug to VIDEO and the white plug to AUDIO-L (mono).

Note on the S1 Video signal
When heS1 Video signal is involved the VIDEO IN 1/2/3
pict, set AUTO WIDE to DFF if you do not want to display the
picture in full wide mode teee page 11).

If both 5 Video and video signals are input The 5 Video input signal is selected. To view a video signal, disconnect the 5 Video connection.

Note on the video input When no signal is input, the screen becomes blue.

When connecting a VCR to the VIDEO IN 3 jacks
This TV is equipped with two sets of the VIDEO IN 3 jacks. Two
sets are not available to be used at the same time. When using
equipment connected, turn off other equipment not in use.

Operations | 21-EN

22-EN | Additional Information

Troubleshooting

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.

If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture Noisy sound



→ Check the antenna connection on the TV -Check the antenna.

Dotted lines or stripes

and on the wall.



→ This may be caused by local interference (e.g. cars, neon signs, hair dryers, etc.) Adjust the antenna for minimum interference.

Double images or "ghosts"



nearby mountains or buildings. A highly → This may be caused by reflections from directional antenna may improve the

Good picture Noisy sound



◆Check the TV SYSTEM setting.

No picture No sound

Channel allocation



■◆ Press POWER. ■◆ Press POWER to turn the TV off for 5 to 6 seconds, then turn it on again by pressing

■ Check the antenna connection. ◆ Check the VCR connections. POWER.

Good picture No sound



♣ Press MUTING. ♣ Press VOL +.

No color



→ Adjust COLOR in the VIDEO CONTROL ◆ Check the COLOR SYSTEM setting. menu's ADJUSTMENT option.

Arab Emirates, Western Sahara, Yemen Arab Republic,

People's Dem. Rep. of Yemen, Yugoslavia, Zambia,

Tanzania, Thailand, Tunisia, Turkey, Uganda, United

Swaziland, Sweden, Switzerland, Syrian Arab Rep., Portugal, Qatar, Sarawak, Saudi Arabia, Seychelles,

Sierra Leone, Singapore, Spain, Srilanka, Sudan, Nicaragua, Nigeria, Norway, Oman, Pakistan,

TV cabinet creaks

Australia, New Zealand AUSTRALIA Zimbabwe

> sometimes make the TV cabinet expand or ■ Even if the picture or the sound is normal, contract, making a noise. This does not changes in the room temperature indicate a malfunction.

CHINA/E EURO

Areas allocated in each channel system

Bangladesh, Belgium, Brunei, Canary Islands, Cyprus, Denmark, Egypt, Finland, Germany, Chana, Gibraltar,

Afghanistan, Albania, Algeria, Austria, Bahrain,

M E/ASIA/CATV W EURO

Jordan, Kenya, Republic of Korea, Kuwait, Lebanon,

Greece, Iceland, India, Indonesia, Iran, Iraq, Italy,

Mozambique, Nepal, Netherlands, New Zealand,

Mauritania, Mauritius, Maldives Rep., Morocco,

Liberia, Libya, Luxemburg, Malaysia, Malta,

Rep. of Korea, Madagascar, Mongolia, New Caledonia, Guinea (P.P.R.), Hungary, Ivory Coast, Dem. People's Niger, Poland, Reunion, Rumania, Senegal, Tahiti, Diibouti Republic, Gabon, Guadeloupe, Guiana, Benin, Bulgaria, China, Congo, Czechoslovakia, Togo, Former U.S.S.R., Vietnam, Zaire

AMERICA/CATV AMERICA

Cuba, Dominica Republic, Ecuador, El Salvador, Guam, Bahama Islands, Barbados, Belize, Bermuda, Bolivia, Burrna (UHF), Canada, Chile, Colombia, Costa Rica, Guatemala, Haiti, Hawaii, Honduras, Jamaica, Laos, Surinam, Taiwan, Trinidad & Tobago, U.S.A., U.S.A. Mexico, Panama, Peru, Philippines, Puerto Rico, (CATV), Venezuela

Burma (Myanmar) (VHF), Japan (VHF, UHF)

Hong kong, Ireland, Lesotho, South Africa, United Kingdom

TV and color systems of each channel system

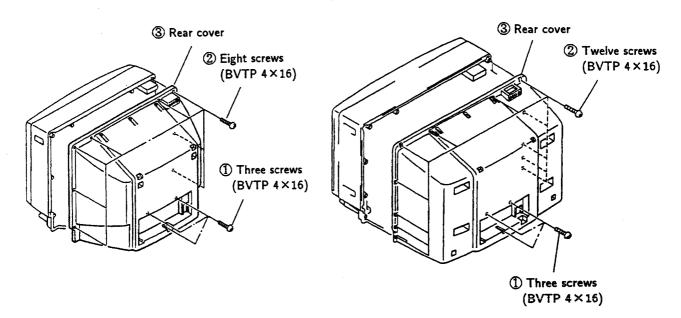
The TV system and color system are automatically set according to the channel system.

| Channel system | TV system | Color system |
|--------------------------|-----------------------------------|--------------|
| M E/ASIA/ CATV W EURO | B/G, H: West European TV standard | АЛТО |
| AUSTRALIA | B/G, H: Australian TV standard | AUTO |
| HK/UK | f: British TV standard | AUTO |
| CHINA/E EURO | D/K: East European TV standard | AUTO |
| AMERICA/CATV AMERICA | M: American TV standard | AUTO |
| JAPAN | M: Japan TV standard | AUTO |

SECTION 2 DISASSEMBLY

2-1-1. REAR COVER REMOVAL (KV-W28MH11/W28MN11 only)

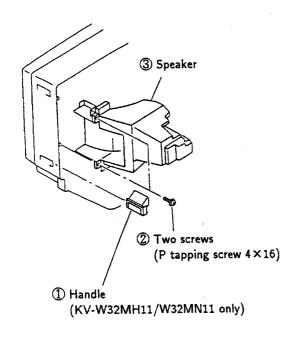
2-1-2. REAR COVER REMOVAL (KV-W32MH11/W32MN11 only)

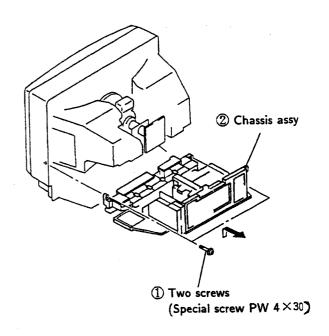


and the state of t

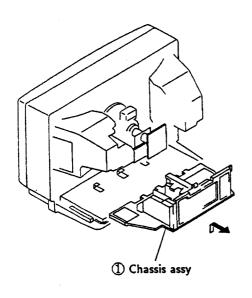
2-2. SPEAKER REMOVAL

2-3-1. CHASSIS ASSY REMOVAL (KV-W28MH11/W28MN11 only)

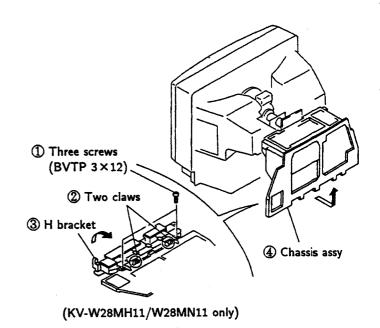




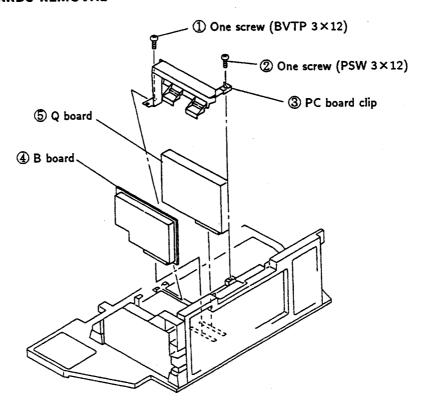
2-3-2. CHASSIS ASSY REMOVAL (KV-W32MH11/W32MN11 only)



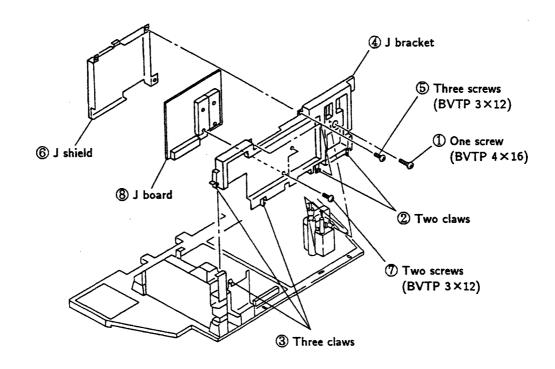
2-4. SERVICE POSITION



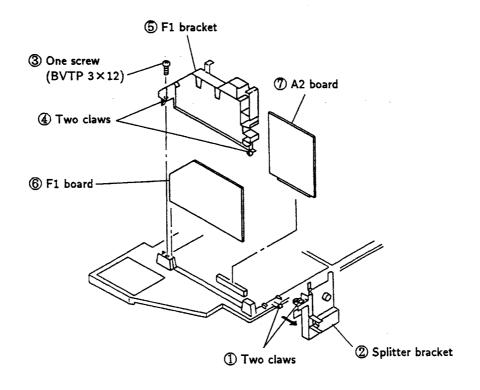
2-5. B AND Q BOARDS REMOVAL



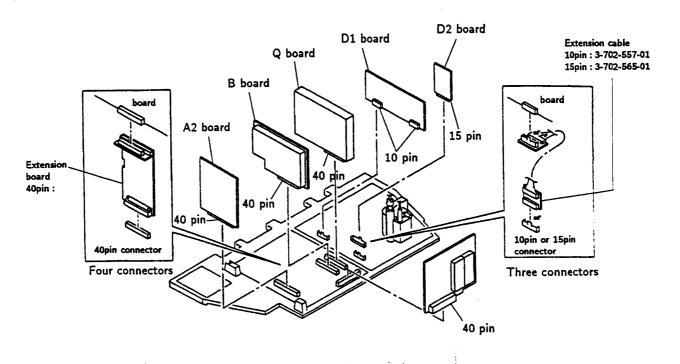
2-6. J BOARD REMOVAL



2-7. F1 AND A2 BOARDS REMOVAL

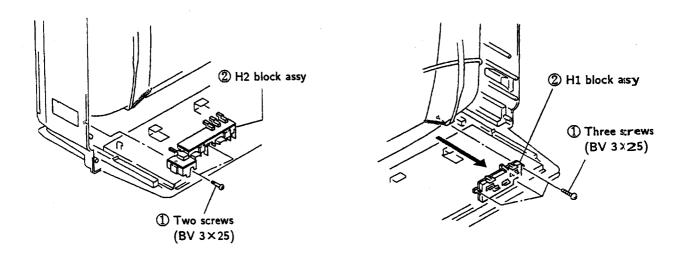


2-8. EXTENSION CABLE AND BOARD

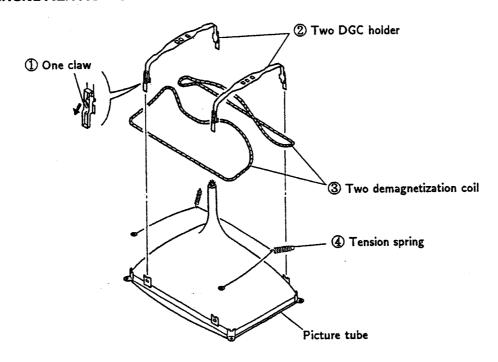


2-9. H2 BLOCK ASSY REMOVAL (KV-W32MH11/W32MN11 only)

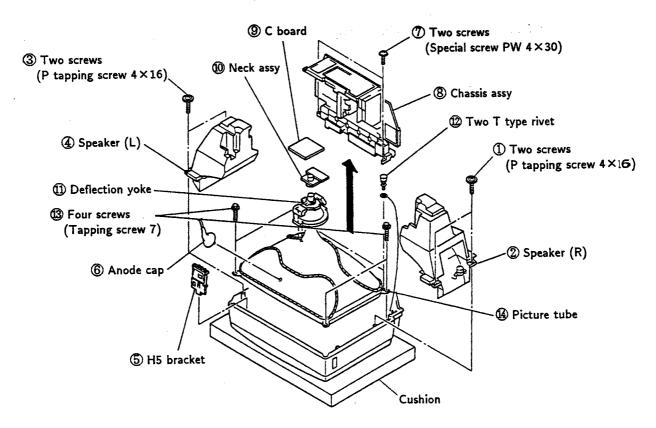
2-10. H1 BLOCK ASSY REMOVAL (KV-W32MH11/W32MN11 only)



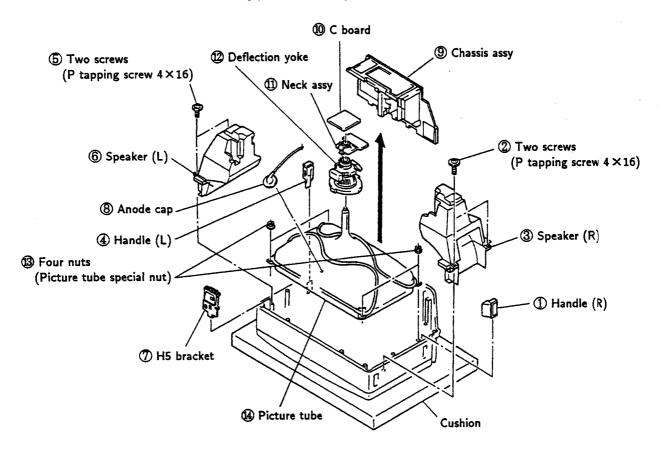
2-11. DEMAGNETIZATION COIL REMOVAL



2-12-1. PICTURE TUBE REMOVAL (KV-W28MH11/W28MN11 only)



2-12-2. PICTURE TUBE REMOVAL (KV-W32MH11/W32MN11 only)



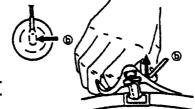
• REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

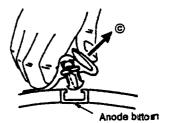
REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ②.



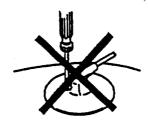
Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow
.

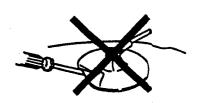


When one side of the rubber cap is separated from the anode button, he anode-cap can be removed by turring up the rubber cap and pulling up it inthe direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber too hard in order not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- 3 Don't turn the foot of rubber over hard! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control RESET
BRIGHTNESS control CENTER

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. White Balance

Note: Test Equipment Required.

- 1. Color-bar/Pattern Generator
- 2. Degausser
- 3. Oscilloscope

3-1. BEAM LANDING

Preparations:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

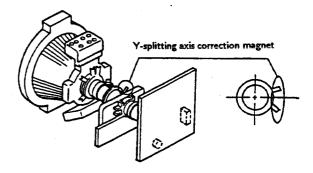
(1) Adjustment of Control Magnet for Y-Splitting Axis

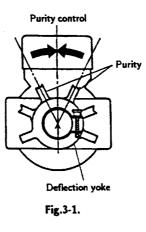
- 1. Input a crosshatch signal with the pattern generator.
- 2. Picture control is minimum and brightness control is still normal.
- 3. Position the neck assy as shown in Fig.3-2.
- Move the deflection yoke forward to touch the CRT and it stands up rightly.
- Adjust the upper pin and the lower pin symmetrically by opening or closing the Y-splitting axis correction magnet on the neck assy.
- 6. Return the deflection yoke to original position.

(2) Landing

- Input a full-white signal with the pattern generator.
 Maximize the picture setting and adjust the brightness setting for easy viewing.
- 2. Rough-adjust the focus, horizontal convergence.
- Loosen the deflection yoke screws, align the purity adjustment knob to the central position. (See Fig.3-1.)
- 4. Switch the full-white signal to a mono-green signal.
- 5. Move the deflection yoke backward and adjust with the purity magnet so that the green is at the center and it aligns symmetrically. (See Fig.3-3.)
- 6. Move the deflection yoke forward and adjust so that entire screen is green.

- 7. Switch the raster signal to red, then to blue and verify the landing condition.
- 8. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 9. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4.)





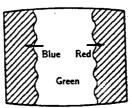
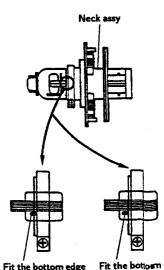


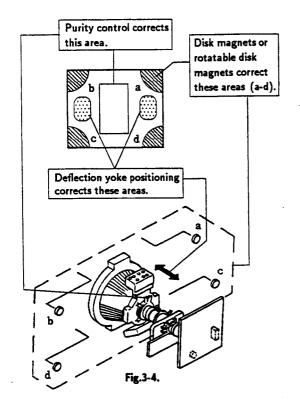
Fig.3-3.



Fit the bottom edge of the neck assy with the G3 hole center. (28 inch)

Fit the bottom edge of the neckassy with the G3 hokedge.
(32 inch)

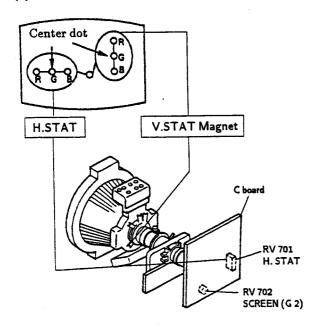
Fig.3-2.



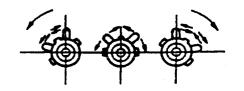
3-2. CONVERGENCE

Preparation:

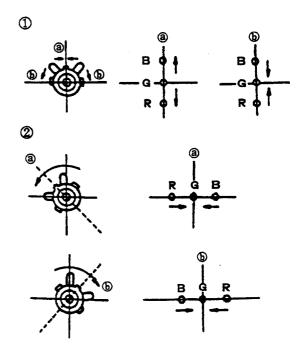
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.
- (1) Horizontal and Vertical Static Convergence

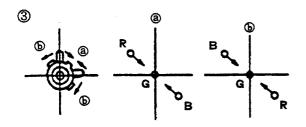


- 1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- 3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H. STAT variable resistor and the V.STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

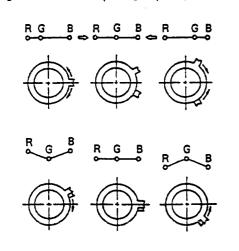


4. If the V.STAT magnet is moved in the direction of the and arrows, the red, green, and blue points move as shown below.

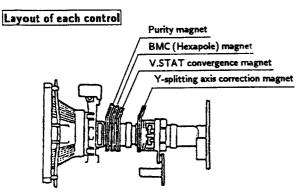




• Operation of BMC (Hexapole) Magnet

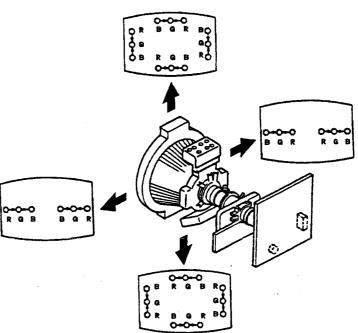


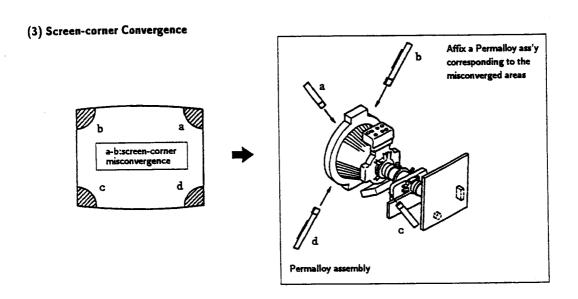
 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic Convergence Adjustment Preparations:

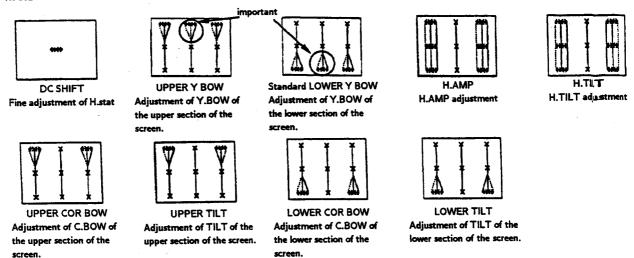
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.





| ltem number | Adj. Item | Data range | Standard DATA | Note | Device |
|----------------|-----------|------------|--|------------------|--------------|
| | | | W 5 W 6 Z 5 Z 6 S 5 S 6 No/Fu 5 No/Fu 6 MF | ' | (CYA 1506 D) |
| 37 | DCS | 00~3F | 1 F | DC Shift | (CXA 1526 P) |
| 38 | HAP | 00~3F | 1 F | H. Amp | (CXA 1526 P) |
| 39 | HTL | 00~3F | 1 F | H. Tilt | (CXA 1526 P) |
| 3A | UYB | 00~3F | 1 F | Upper Y Bow | (CXA 1526 P) |
| 3B | LYB | 00~3F | 1 F | Lower Y Bow | (CXA 1526 P) |
| 3C | UCB | 00~3F | 1 F | Upper Corner Bow | |
| 3D | UTL | 00~3F | 1 F | Upper Tilt | (CXA 1526 P) |
| 3E | LCB | 00~3F | 1 F | Lower Corner Bow | (CXA 1526 P) |
| 3F | LTL | 00~3F | 1 F | Lower Tilt | (CXA 1526 P) |

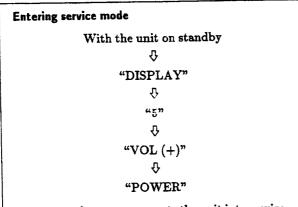
R.G.B.dots movement on the screen of the set



At this time, H.TILT, H.AMP, UPPER TILT, UPPER COR, BOW, LOWER TILT, and LOWER COR, Bow look like all the same, but the movement of the right and left dots are reverse in all the TILT system. (Pay attention to the dotted lines.)

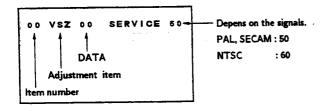
(4) Dynamic convergence adjustment

- Adjust horizontal convergence located at the center position of the screen with H STAT VR.
- 2. Dynamic convergence adjustments are made with the RM-850 that comes with this unit.



This operation sequence puts the unit into service mode.

The screen display

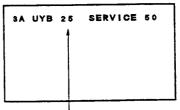


| "1", "4" | Raise/lower the service item number |
|----------|-------------------------------------|
| "3", "6" | Raise/lower the data |
| "MUTE" | Writes |
| "o" | Executes the writing |
| 1 | |

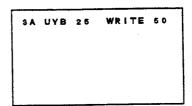
Item Number 3A

This explanation uses UYBOW as an example.

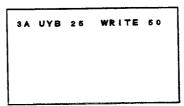
- 1. Select 3A UYBOW with the "1" and "4" buttons.
- 2. Raise/lower the data with the "3" and "6" buttons.
- 3. Select the optimum staste.
- 4. Write with the MUTE button. (The display changes to WRITE.)
- 5. Execute the writing with the "0" button.



Adjusted with "3" and "6" buttons



Written with "MUTE"

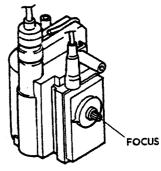


Write excuted with "0"

| "1", "4" | Select the adjustment item. |
|----------|-----------------------------|
| "3", "6" | Raise/lower the data. |
| "MUTE" | Writes. |
| ↓ "0" | Executes the writing. |

3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for a best focus.



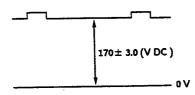
FLYBACK TRANSFORMER (T503)

3-4. G2 (SCREEN), SUB PICTURE AND WHITE BALANCE ADJUSTMENTS

(1) G2 (SCREEN) ADJUSTMENT (RV701)

- 1. Set the PICTURE and BRIGHTNESS to normal.
- 2. Put to VIDEO input mode without signals.
- 3. Set to Service Mode. (To turn off Blue Black.)
- 4. Change BOF data of the item number "1A" from "00" to "01".
- 5. Connect R, G, and B of the C board cathode to the oscilloscope.

Adjust R-G, G-G, B-G, data of the item number "0 E", "0 F", "10" to the volue below.



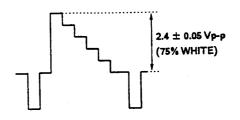
 Adjust G2 (RV701) volume to make the screen slightly bright.

(2) SUB PICTURE ADJUSTMENT (R-G)

- 1. Receive a NTSC color-bar (75% WHITE) to set to FULL mode.
- 2. Set the conditions as follows.

| SHARPNESS | • | minimum |
|-------------|---|---------------|
| PICTURE | •••••• | maximum |
| COLOR | ••••• | minimum |
| BRIGHT | | 50% |
| SUB BRIGHT | ••••• | 1F 18 DATA |
| SID DICTURE | | 18 DATA |

- 3. Connect an oscilloscope to the pin® (R OUT) of CN 508, D board.
- 4. Set to Service Mode.
- 5. Select 0F (G-G) and 10 (B-G) with 1 and 4 of the commander and set the data "00" with 3 and 6.
- 6. Select 0E (R-G) with 1 and 4, and adjust 3 and 6 to get 2.4 ± 0.05 Vp-p level.
- 7. Press $\boxed{\text{MUTING}} \rightarrow \boxed{0}$ of the commander to write the data.

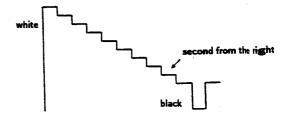


(3) WHITE BALANCE ADJUSTMENTS

- 1. Input an entire white signal.
- 2. Set to service mode.
- 3. Set the PICTURE to maximum.
- 4. Select G-G (0F) and B-G (10) with 1 and 4, and adjust the level with 3 and 6 for the best white balance.
- 5. Set the PICTURE to minimum.
- Adjust the level with RV705 (B.BKG) and RV704 (G.BKG) for the best white balance.
- 7. Write into the memory by pressing $\boxed{\text{MUTE}} \rightarrow \text{then } \boxed{0}$.

(4) SUB BRIGHT ADJUSTMENT

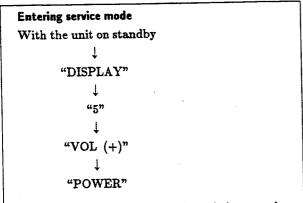
- 1. Set to service mode.
- 2. Input a staircase signal of black and white from the pattern generator.
- 3. BRIGHTNESS ··· 50%
 PICTURE ······ minimum
- 4. Select SBT with land 4, and adjust SBT (24) level with 3 and 6 so that the stripe second from the right is dimly lit.



SECTION 4 CIRCUIT ADJUSTMENTS

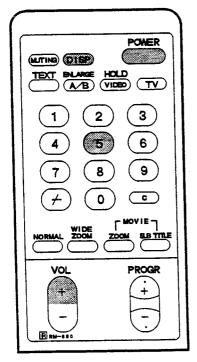
4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-850 that comes with this unit.



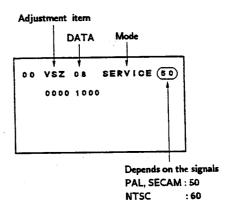
This operation sequence puts the unit into servise mode.

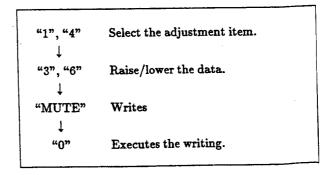
| "1", "4" "3", "6" "MUTE" "0" | Raise/lower the service item number Raise/lower the data Writes Executes the writing |
|------------------------------|--|
| "7", "0" | The data all becomes the values in memory |
| "8", "0" | User control all goes to the standard state |
| "5", "0" | Service data initialization (Besure not to use usually.) |
| "DISP", "0" | Write 50Hz adjustment data to 60Hz, or vice versa. |
| "2", "0" | Data copy of all WIDE modes. |



RM-850

The screen display is:



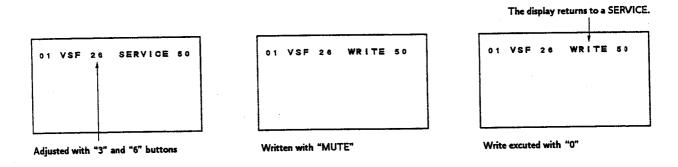


4-2. ADJUSTMENT METHOD

Item Number 01

This explanation uses V-SHFT as an example.

- 1. Select 01 V-SHFT with the "1" and "4" buttons.
- 2. Raise/lower the data with the "3" and "6" buttons.
- 3. Select the optimum state. (The standard setting is for PAL reception.)
- 4. Write with the MUTE button. (The display changes to WRITE.)
- 5. Execute the writing with the "0" button.



| ltem number | Adjustment Item | Data range | Standard DATA | Note | Device |
|----------------|--------------------|----------------|------------------------------------|------------------|----------|
| | | | W5 W6 Z5 Z6 S5 S6 No/Fu5 No/Fu6 MP | | |
| | V67 | 00~3F | 30 | V-Size | CXD2018Q |
| 00 | VSZ | 00~3F | 26 | V-Shift | t |
| 01 | VSF | 00~3F 00~0F | 04 | S-Correction | |
| 02 | SCR | 00~0F | 09 | V-Linearity | |
| 03 | VLN | 00~3F | 2A | H-Size | 1 |
| 04 | HSZ | 00~3F | 20 | Pin-Amp | |
| 05 06 | PAP TLT | 00~1F | 10 | TILT | |
| 07 | UCP | 00~0F | 07 | Upper Corner Pin | |
| 08 | LCP | 00~0F | 06 | Lower Corner Pin | |
| 09 | VBW | 00~0F | 08 | V-Bow | |
| 0A | VAG | 00~0F | 08 | V-Angle | 1 |
| 0B | HVV | 00~07 | 05 | HV-Comp-V | |
| 0C | HVH | 00~07 | 00 | HV-Comp-H | |
| | | | W5 W6 Z5 Z6 S5 S6 N5 N6 F5 F6 MP | | |
| 0D | HSH | 00~3F | 20 | H Shift | |

| ltem | Adjustment | Data range | Standard DATA | Note | Device |
|----------|------------|------------|--|-------------------|--------------|
| number | Item | Data lange | | | |
| 0E | R-G | 00~3F | .1F | Red Gain | TDA4780/ |
| 0F | G-G | 00~3F | 1F | Green Gain | TDA4686 |
| | B-G | 00~3F | 1F | Blue Gain | |
| 10 | _ | 00~3F | 1F | Red Level Ref. | |
| 11 | RLR | | —· | Green Level Ref. | 1 |
| 12 | GLR | 00~3F | 1 <u>F</u> | | |
| 13 | BLR | 00~3F | 1F | Blue Level Ref. | 1 |
| 14 | PDL | 00~3F | 29 | Peak Drive Limit | 1 |
| 15 | GMM | 00~3F | 1F | γ | |
| 16 | SC5 | 00~01 | 01 | Sand Castle 5 V | |
| 17 | DOF | 00~01 | 00 | Delay Lead Edge | i |
| | | 00~01 | 00 | HDTV/Progressive | 1 |
| 18 | HD | 1 1 | 00 | Screen Black | |
| 19 | FLB | 00~01 | * - | | |
| 1A | BOF | 00~01 | 00 | Auto Cut-OFF OFF | |
| 1B | ADB | 00~01 | 01 | Adaptive Black | |
| 1C | YH1 | 00~01 | 00 | Y High Level | i |
| 1D | MD2 | 00~01 | 00 | Modus 2 | |
| | BLS | 00~01 | 00 | BLST | 1 |
| 1E | | 00~01 | 01 | Y Exclusive Hue | 1 |
| 1F | YEX | 1 | | | 1 |
| 20 | RLC | 00~01 | 00 | Rel. to CutOff | |
| 21 | TCP | 00~01 | 01 | Time Const. Peak | |
| | | | Wide Zoom, Zoom, Subtitle, Full, MP Normal | | |
| 22 | SPI | 00~1F | 0F | Sub Picture | |
| 23 | sco | 00~3F | 1F | Sub Color | |
| 24 | SBT | 00~7F | 1F | Sub Bright | |
| 25 | SHU | 00~1F | 0F | Sub Hue | TDA9145 |
| . 26 | SHS | 00~1F | 0F | Sub Hue S&PinP | İ |
| 27 | cv . | 00~01 | 00 | Forced CVBS | |
| 28 | FON | 00~01 | 01 | Frame ON | SDA9188-3> |
| 29 | DLY | 00~07 | 00 | Sel. Delay LL 3 P | |
| | P-V | 00~0F | 08 | V read delay | |
| 2A | | | 01 | PIP-V offset | |
| 2B | PVS | 00~07 | · - | | |
| 2C | P-H | 00~3F | 0A | H read delay | į |
| 2D | PHS | 00~0F | 02 | PIP-H offset | |
| 2E | CTR | 00~0F | 09 | Contrast | |
| 2F | DVI | 00~1F | 07 | Set Delay VSI | |
| | | 00~1F | 0F | Delay VSP Pulse | i |
| 30 | DVP | | | | 1 |
| 31 | BRT | 00~0F | 05 | Frame Brightness | 1 |
| 32 | PLL | 00~01 | 00 | PLL Time Const. | |
| 33 | 9V5 | 00~07 | 03 | Multi PiP V 50 Hz | 1 |
| | 9V6 | 00~07 | 03 | Multi PiP V 60 Hz | |
| 34 | | 1 | 03 | Multi PiP H 50 Hz | |
| 35 | 9H5 | 00~07 | | | |
| 36 | 9H6 | 00~07 | 03 | Multi PiP H 60 Hz | |
| | | | W5 W6 Z5 Z6 S5 S6 No/Fu5 No/Fu6 MP | | |
| 27 | DCS | 00~3F | 1F | DC Shift | CXA1526P |
| 37 | | | 1F | H.Amp | 1 |
| 38 | HAP | 00~3F | | | 1 |
| 39 | HTL | 00~3F | 1F | H.Tilt | 1 |
| 3A | UYB | 00~3F | 1F | Upper Y bow | 1 |
| 3B | LYB | 00∼3F | 1F | Lower Y Bow | |
| 3C | UCB | 00~3F | 1F | Upper Corner Bow | |
| | | 00~3F | 1F | Upper Tilt | 1 |
| 3D | UTL | | 1F | Lower Corner Bow | 1 |
| 3E 3F | LCB | 00~3F | | Lower Tilt | 1 |
| | LTL | 00~3F | 1F | FOMEL I III | ı |

| ltem number | Adjustment Item | Data range | Standard DATA | Note | Device |
|----------------|--------------------|------------|---|-----------------------------------|--------------|
| | | | W5 W6 Z5 Z6 S5 S6 N5 N6 F5 F6 | | |
| 40 | 107 | 00~01 | 00 | Set TMS4C1070 | IPQ V3, 4 |
| 40 41 | P27 | 00~01 | 00 | PLLMID Port P27 | (F/F) |
| 42 | LFR | 00~01 | 01 | LFR ON/OFF | |
| 43 | HWE | 00~0F | 0B | HWE1 Line Delay | |
| 44 | NR | 00~03 | 01 | Noise Reduction | |
| 45 | STP | 00~01 | 00 | Still Picture | |
| | | | W 5 W 6 Z 5 Z 6 S 5 S 6 No/Fu 5 No/Fu 6 | | |
| 46 | VWD | 00∼3F | Invalid 1 A Invalid | Scroll | |
| 47 | Y-V | 00∼FF | 00 | Y Value | |
| 48 | UVV | 00~FF | 00 | UV Value | |
| 49 | ТХН | 00~FF | 05 | Text H Position | TPU3040 |
| 4A | TXV | 00~3F | 16 | Text V Position | · . |
| 4B | VSP | 00~FF | 3B | WST Layer V Stop | (Text) |
| 4C | BSP | 00~FF | 3D | Blanking Stop | į |
| 4D | BST | 00~FF | 35 | Blanking Start | |
| 4E | QSF | 00~1F | 01 | ACQ Soft Slicer | |
| 4F | A7F | 00∼FF | 0A | Address 7FH Data | |
| 50 | QDT | 00~3F | 0D | ACQ Data Slicer | |
| 51 | CST | 00∼FF | 00 | Clamping Start | 1 |
| 52 | CSP | 00~FF | 50 | Clamping Stop | |
| 53 | FAW | 00~FF | 0A | NICAM FAW Thresh | MSP3410 |
| 54 | CCT | 00~FF | 0A | NICAM Error Bit | (Audio, |
| 55 | WLO | 00∼FF | OA. | W.G. | Stereo) |
| 56 | WHI | 00∼FF | 15 | W.G.Stereo cut point | Steleo) |
| 57 | WML | 00~FF | 50 | W.G. timer | 1 |
| 58 | WMH | 00∼FF | EA | W.G.Bilin cut point | |
| 59 | ACG | 00~01 | 01 | AGC Auto/Const. | İ |
| 5A | CDB | 00~7F | 50 | AGC Gain Const. | |
| 5 B | FMP | 00~7F | 24 | FM Mono Prescale W.G. Prescale | |
| 5C | WGP | 00~7F | 3C | NICAM Prescale | |
| 5D | NIP | 00~7F | 7F | | į |
| 5E | CRM | 00~01 | 00 | Carrier Mute Audio Clock Out | İ |
| 5F | ACO | 00~01 | 01 | Audio Clock Out | |
| 60 | OSH | 00~3F | 06 | OSD Position H | CXP85340 |
| 61 | ODL | 00∼FF | 10 | Power ON Delay | |
| 62 | BLU | 00~01 | 01 | Blue Back | |
| 63 | ROS | 00~3F | 3F | N/S User Step | |
| 64 | MUT | 00~01 | 01 | No Sync. Mute | |
| 65 | DID | 00~01 | 00 | disable Degauss | 1 |
| 66 | DWZ | 00~01 | 00 | User Last Wide | 1 |
| 67 | OP0 | 00~FF | 6C | Option 0 | |
| 68 | OP1 | 00∼FF | 01 | Option 1 | |

Note: • W5: Wide Zoom 50Hz

• W6: Wide Zoom 60Hz

Z5 : Zoom 50Hz

• Z6: Zoom 60Hz

• S5 : Subtitle50Hz

• N5 : Normal 50Hz

• N6: Normal 60Hz

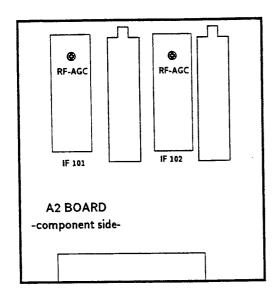
• F5 : Full 50Hz

• F6 : Full 60Hz

• MP : Multi PinP

• S6 : Subtitle60Hz

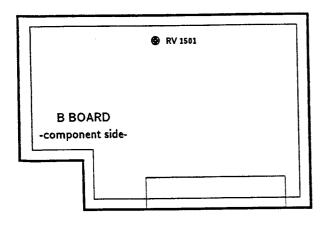
4-3, A2 BOARD ADJUSTMENT



AGC ADJUSTMENT (IF BLOCK)

- 1. Receive an off-air signal.
- 2. Adjust the AGC VR (IF101) so that there is no snow noise and cross-modulation.
- 3. Set to PIP mode. (only 32 inch)
- 4. Receive an off-air signal with the sub picture.
- 5. Adjust the AGC VR (IF102) so that there is no snow noise and cross-modulation.

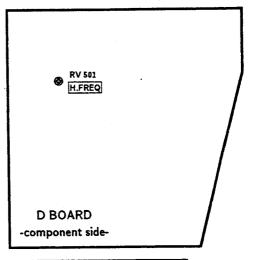
4-4, B BOARD ADJUSTMENT



SCP FO ADJUSTMENT (RV1501)

- 1. Receive a PAL color-bar signal.
- 2. Connect an oscilloscope to the pin (8) of IC501.
- 3. Adjust RV1501 for 2.8~2.9 V.

4-5. D BOARD ADJUSTMENT



H. FREQ ADJUSTMENT (RV501)

- 1. Receive a PAL color-bar signal.
- 2. Short the ground and pin ① of IC502.
- 3. Connect a frequency counter to the pin ② of IC502.
- 4. Adjust RV501 for 31.4 ± 0.1 kHz.
- 5. Disconnect a jumper wire from IC502.

SUB HUE, SUB COLOR ADJUSTMENT (SHU, SCO)

- 1. Receive a NTSC color-bar to set to FULL mode.
- 2. Set the conditions as follows.

 PICTURE

 80%

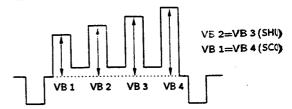
 COLOR

 50%

 HUE

 50%

- 3. Connect an oscilloscope to the pin (B OUT) of CN508, D board.
- 4. Set to Service Mode.
- 5. Select 25 (SHU) and 23 (SCO) with 1 and 4, and adjust 3 and 6 to get VB2=VB3 and VB1=VB4.
- 6. Press MUTING → 0 of the commander to write the data.

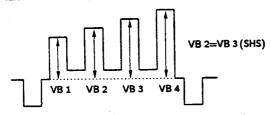


SUB HUES ADJUSTMENT (SHS)

- 1. Receive a S video NTSC color-bar to set to FULL mode.
- 2. Set the conditions as follows.

PICTURE 80% COLOR 50% HUE 50%

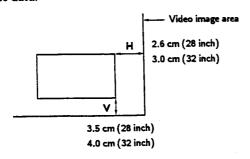
- Connect an oscilloscope to the pin (B OUT) of CN 508, D board.
- 4. Set to Service Mode.
- 5. Select 26 (SHS) with 11 and 4, and adjust 3 and 6 to make VB2=VB3.
- 6. Press MUTING → 0 of the commander to write the data.



WINDOW PICTURE POSITION ADJUSTMENT (PVS, PHS)

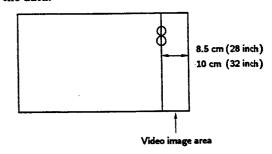
- 1. Receive a PAL SP color-bar to set to FULL mode.
- 2. Set to Service Mode.
- 3. Press MENU button of the commander for P in P mode. (RIGHT, LOWER position)
- 4. Select 2A (P-V) or 2B (PVS) and 2C (P-H) or 2D (PHS) with 1 and 4.

 Then adjust them respectively, with 3 and 4, to 3.5 cm (28 inch) or 4.0 cm (32 inch), and 2.6 cm (28 inch) or 3.0 cm (32 inch).
- 5. Press MUTING → 0 of the commander to write the data.



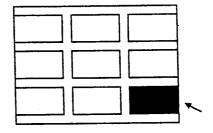
PROGRAM POSITION ADJUSTMENT (OSH)

- 1. Receive a PAL color-bar to set to FULL mode.
- 2. Set to Service Mode.
- 3. Press DISP button of the commander.
- 4. Select 60 (OSH) with 1 and 4 of the commander, and set the position as shown below with 3 and 6.
- Press MUTING → 0 of the commander to write the data.



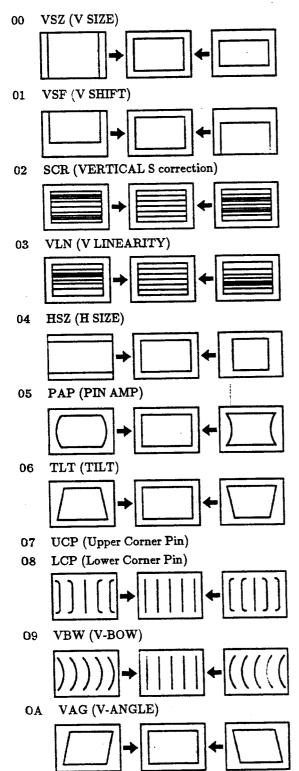
MULTI PIP ADJUSTMENT (9V5, 9V6, 9H5, 9H6)

- 1. Receive a NTSC monoscope to set to FULL mode.
- 2. Set to Service Mode.
- 3. Press MENU button of the commander for STROBE mode. (RIGHT, LOWER position)
- 4. Select 34 (9V6) and 36 (9H6) with 1 and 4, and adjust 3 and 6 to set the monosco pattern at the frame center.
- 5. Press MUTING → 0 of the commander to write the data.
- 6. Receive a PAL monoscope to set to FULL mode.
- 7. Press MENU button of the commander for STROBE mode. (RIGHT, LOWER position)
- 8. Select 33 (9V5) and 35 (9H5) with 1 and 4, and adjust 3 and 6 to set the monosco pattern at the frame center.
- 9. Press MUTING → 0 of the commander to write the data.

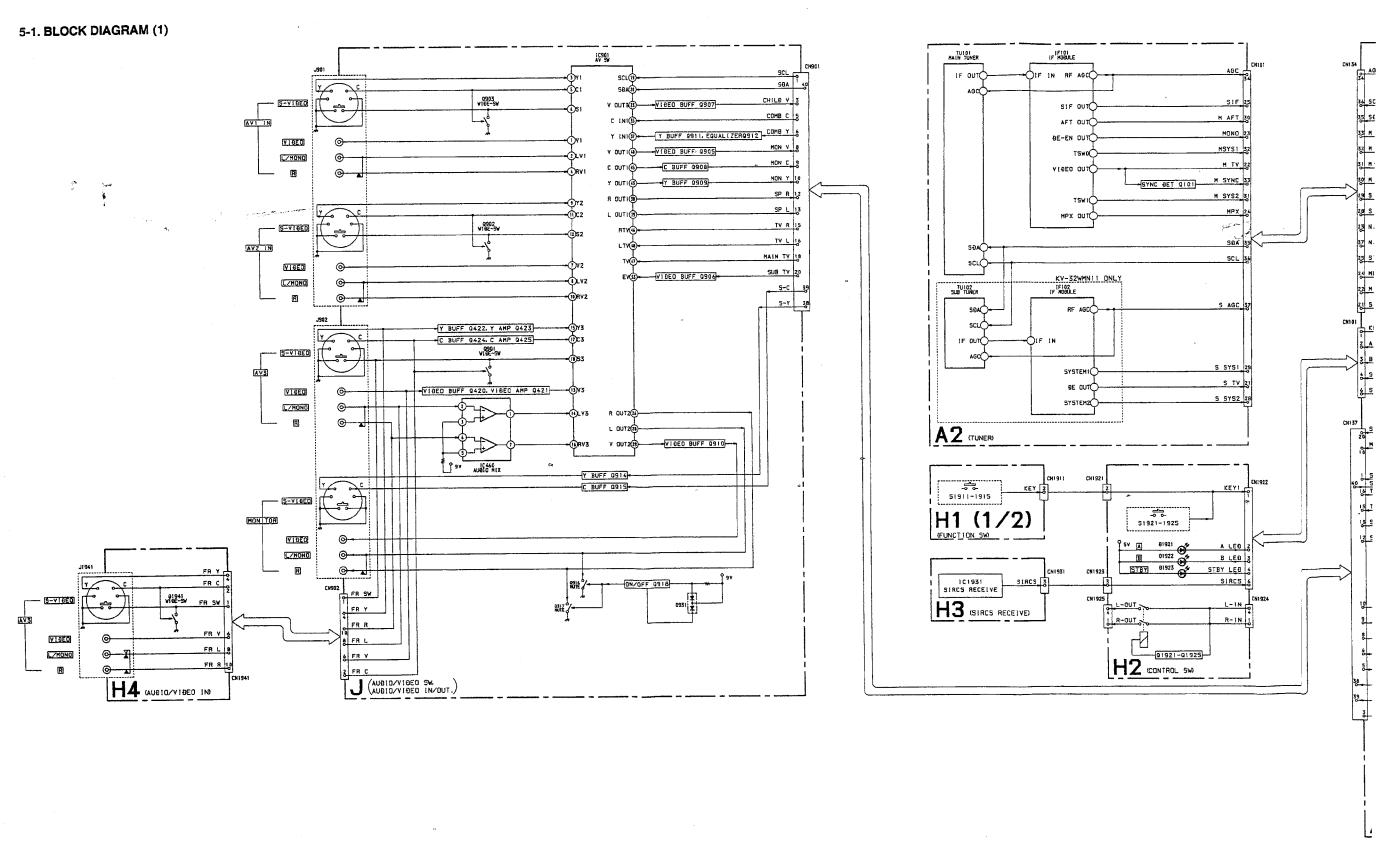


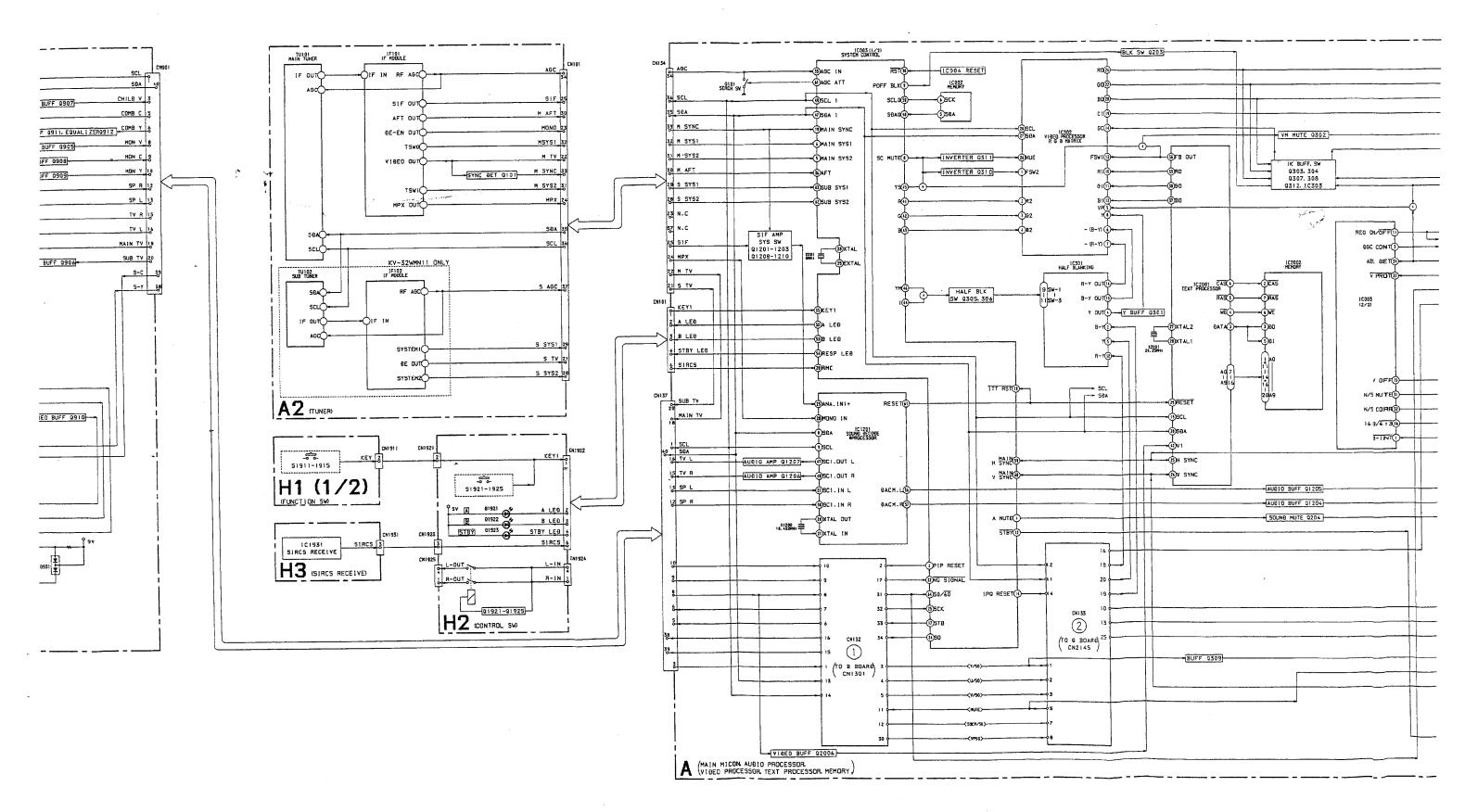
4-6. PICTURE DISTORTION ADJUSTMENT

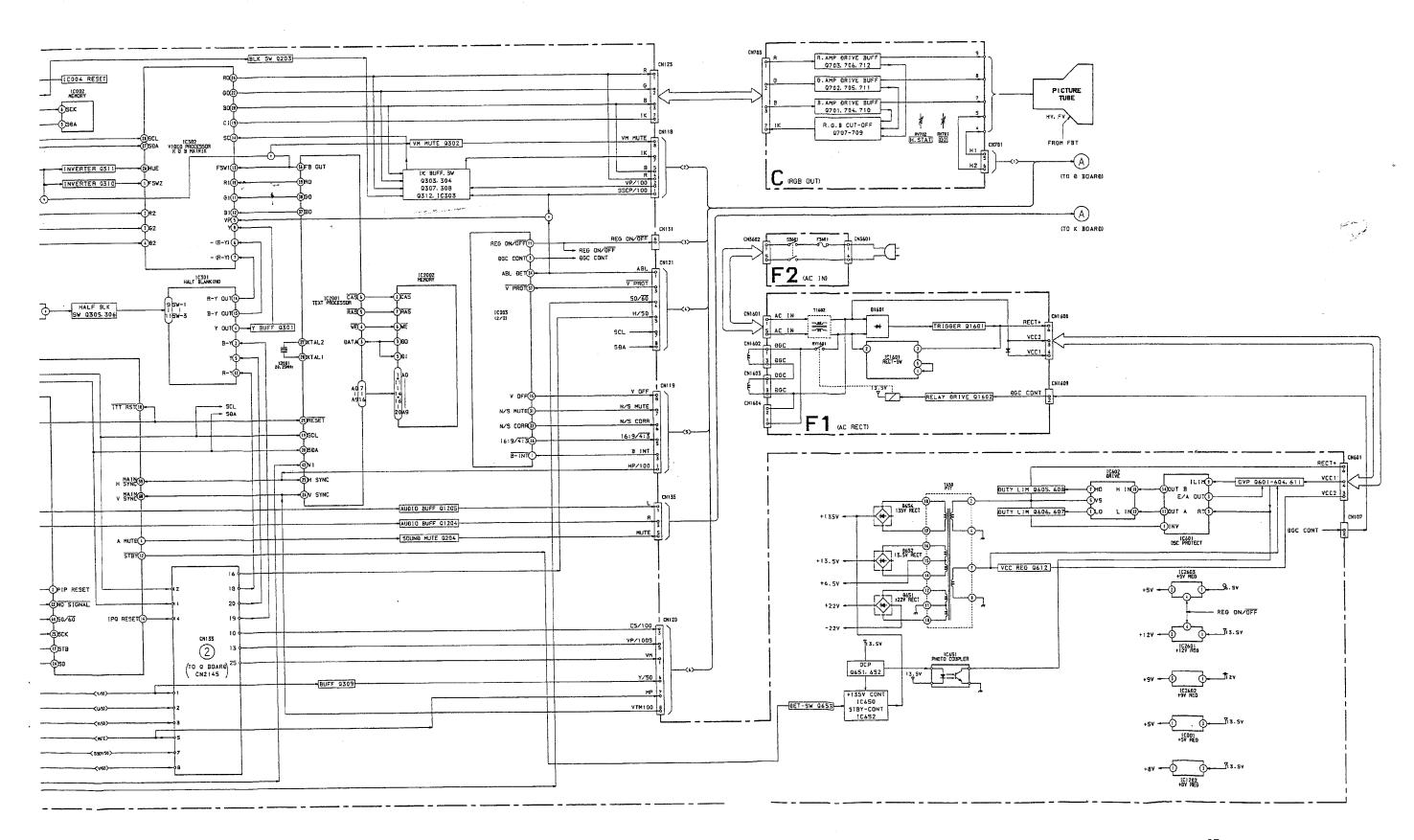
Item Numbers 23-2D



SECTION 5 DIAGRAMS

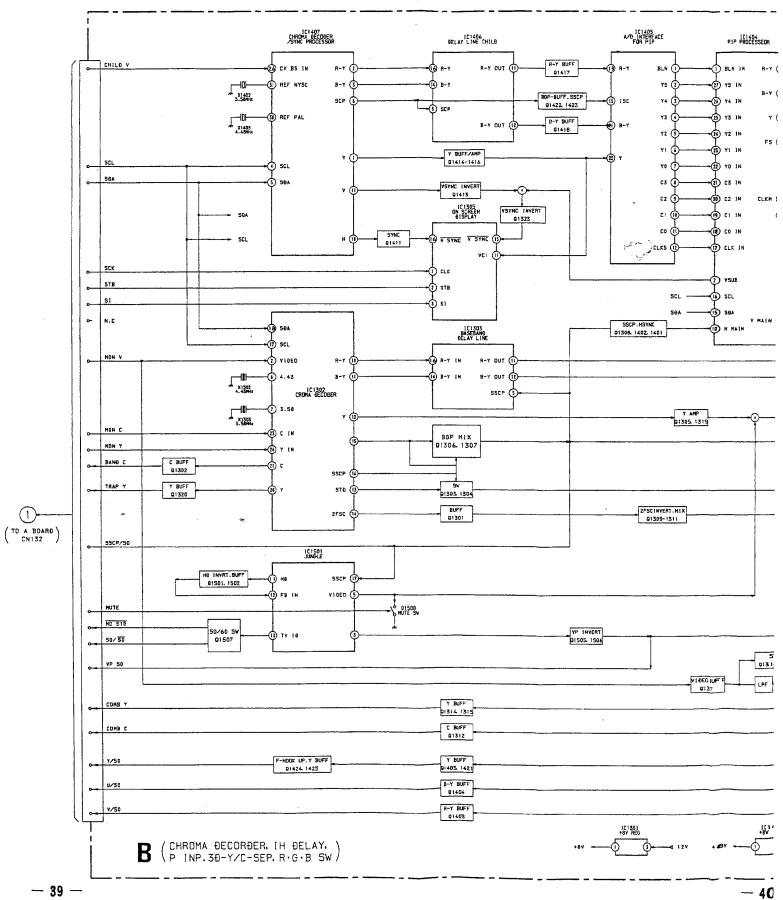




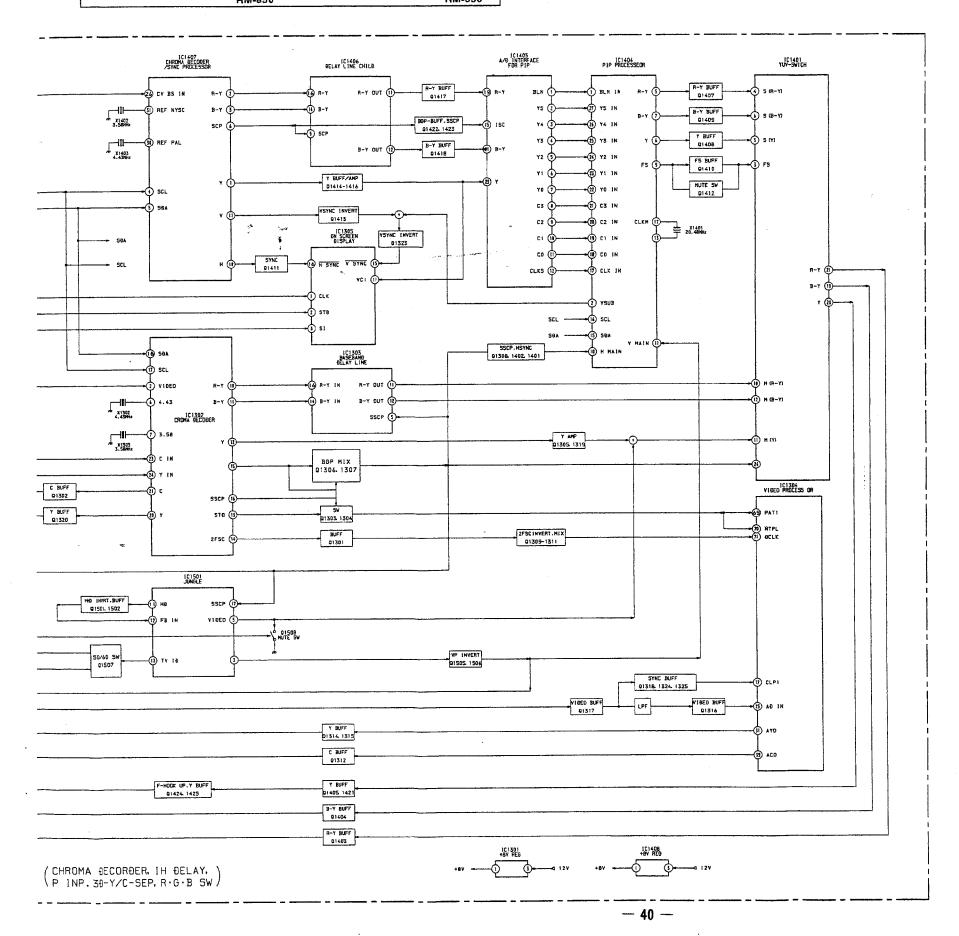


KV-W28MH11/W28MN11 KV-W32MH11/W32MN11 RM-850 KV-W28MH11/W28MN11 KV-W32MH11/W32MN11 RM-850

BLOCK DIAGRAM (2)

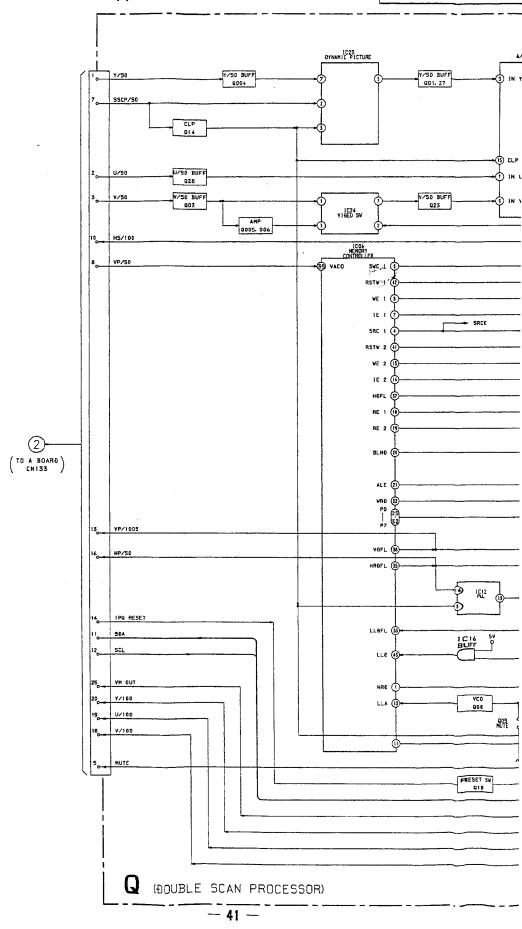


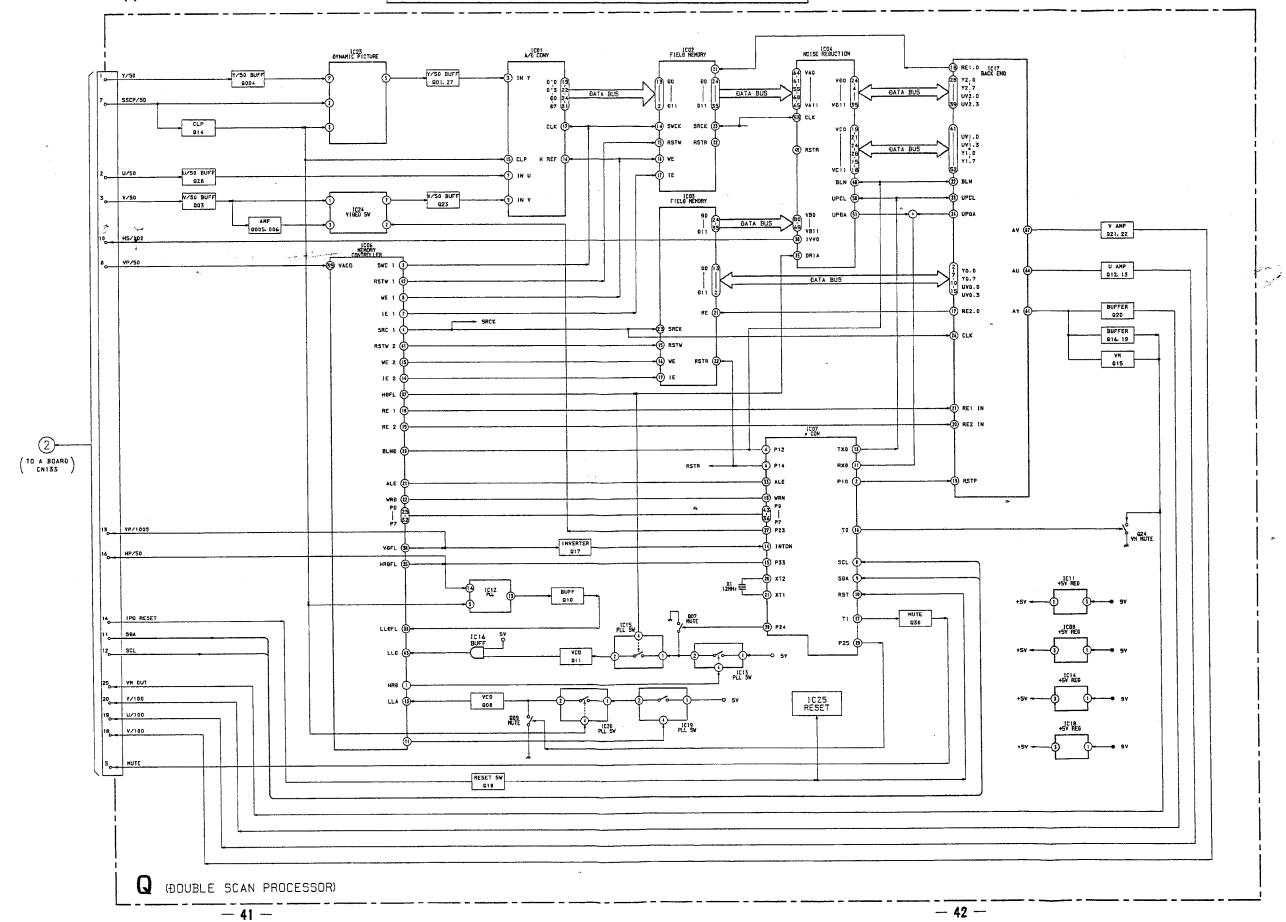
KV-W28MH11/W28MN11 KV-W32MH11/W32MN11 RM-850 KV-W28MH11/W28MN11 KV-W32MH11/W32MN11 RM-850

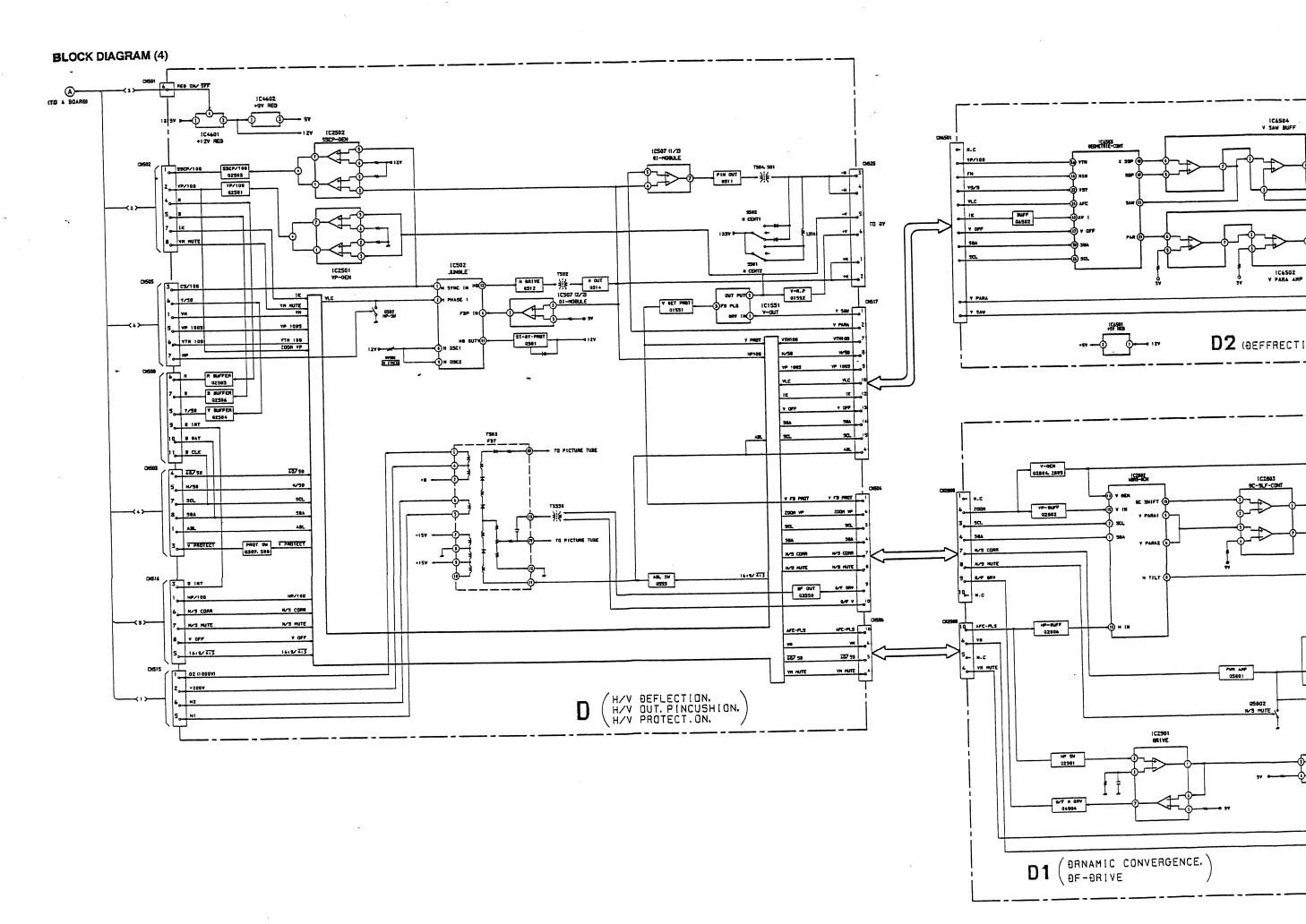


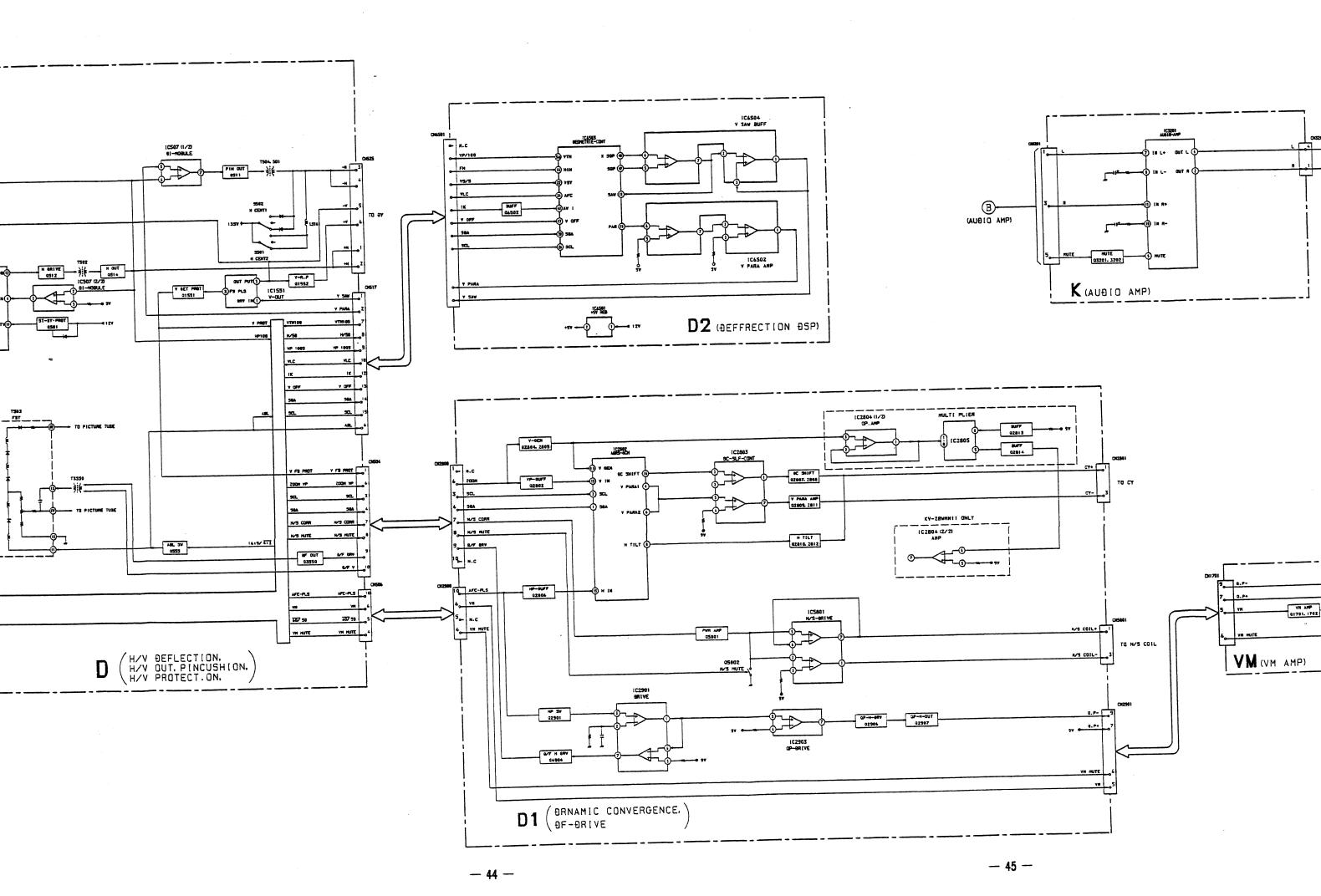
KV-W28MH11/W2 KV-W32MH11/W3

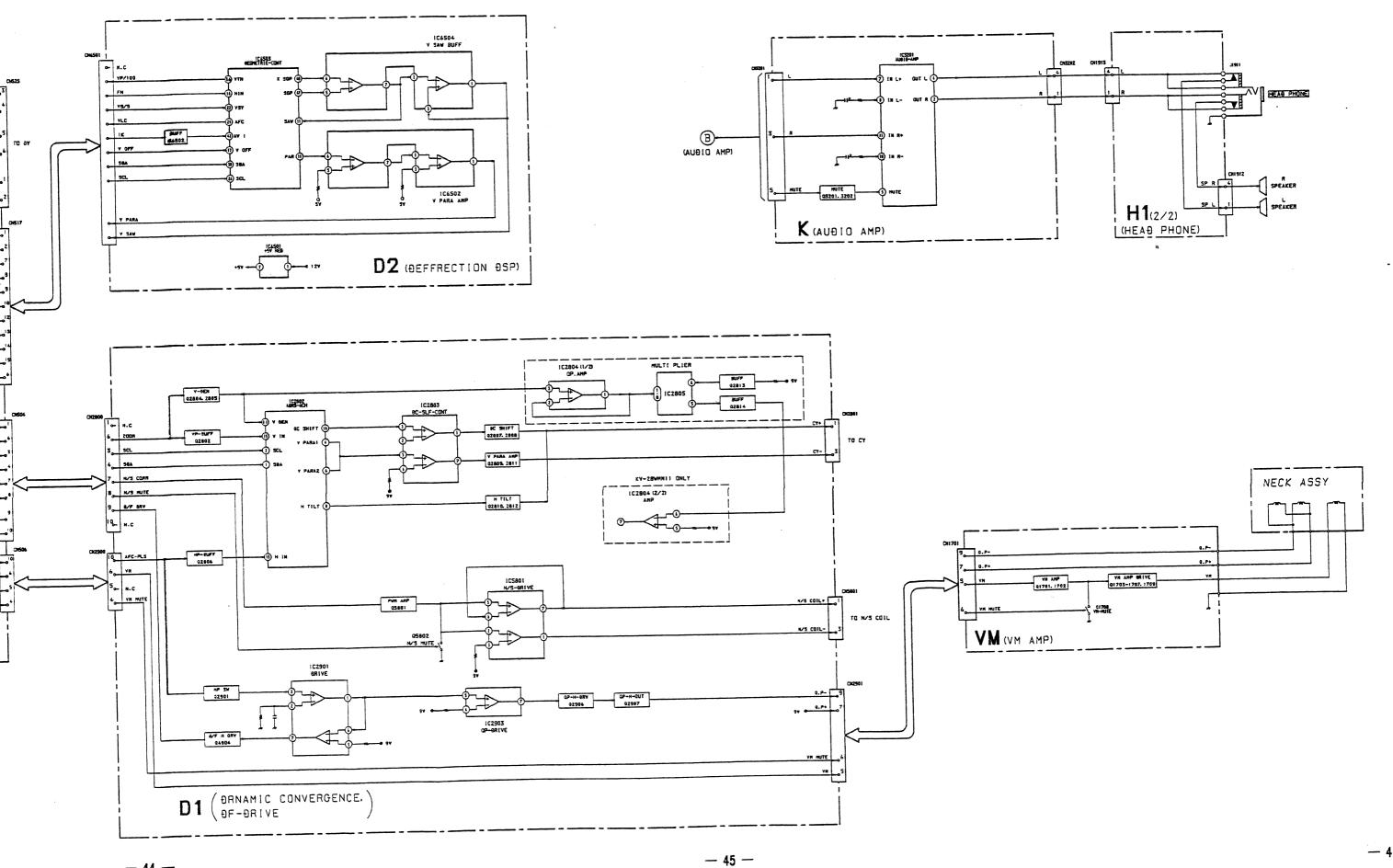
BLOCK DIAGRAM (3)



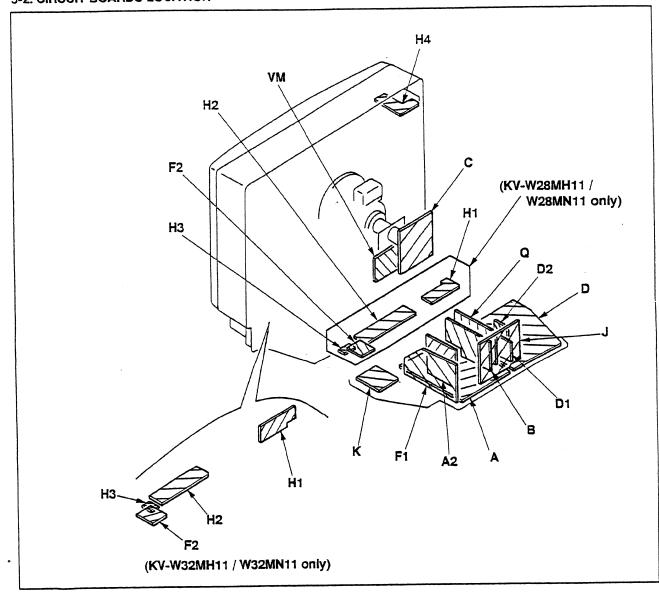








5-2. CIRCUIT BOARDS LOCATION



5-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

HEAD PHONE

SPEAKER

NECK ASSY

 $H1_{(2/2)}$

YR AMP BRIVE Q1703-1707. 1709

VH AMP Q1701, 1702

(AMP

(HEAÐ PHONE)

 \bullet All capacitors are in μF unless otherwise noted, pF: $\mu \mu F$ 50V or less are not indicated except for electrolytics and tantalums.

• All electrolytics are in 50V unless otherwise specified.

· All resistors are in ohms.

kQ = 1000 Q, MQ = 1000kQ

• Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

• - : nonflammable resistor.

: fusible resistor.

 Δ : internal component. • _____ : panel designation and adjustment for repair.

• All variable and adjustable resistors have characteristic curve 8,

unless otherwise noted.

• ; earth-chassis.

- Readings are taken with a color-bar signal input. \bullet Readings are taken with a 10M Ω digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances. 💂

All voltages are in V.

*: Measurement impossibillity.

• Y: B + line. <u>Y</u> : 8 - line.

(Actual measured value may be different).

• signal path.(RF)

• Circled numbers are waveform references.

• No mark: with PAL color-bar signal sreceived or common voltage.

) : with SECAM color-bar signal received.) : with NTSC 3.58 color-bar signal received.] : with NTSC 4.43 color-bar signal received.

Reference information

RESISTOR : RN METAL FILM : RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE

: RW NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE : RS : RB NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR · 3%

: LF-8L MICRO INDUCTOR COIL CAPACITOR : TA TANTALUM STYROL : PS

: PP POLYPROPYLENE : PT MYLAR

METALIZED POLYESTER : MPS METALIZED POLYPROPYLENE

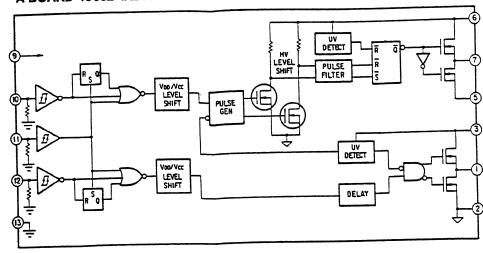
: MPP BIPOLAR : ALB HIGH TEMPERATURE : ALT

HIGH RIPPLE : ALR Note: The components identified by shading and mark ↑ are critical for safety. Replace only with part

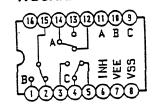
number specified.

Schematic dlagram

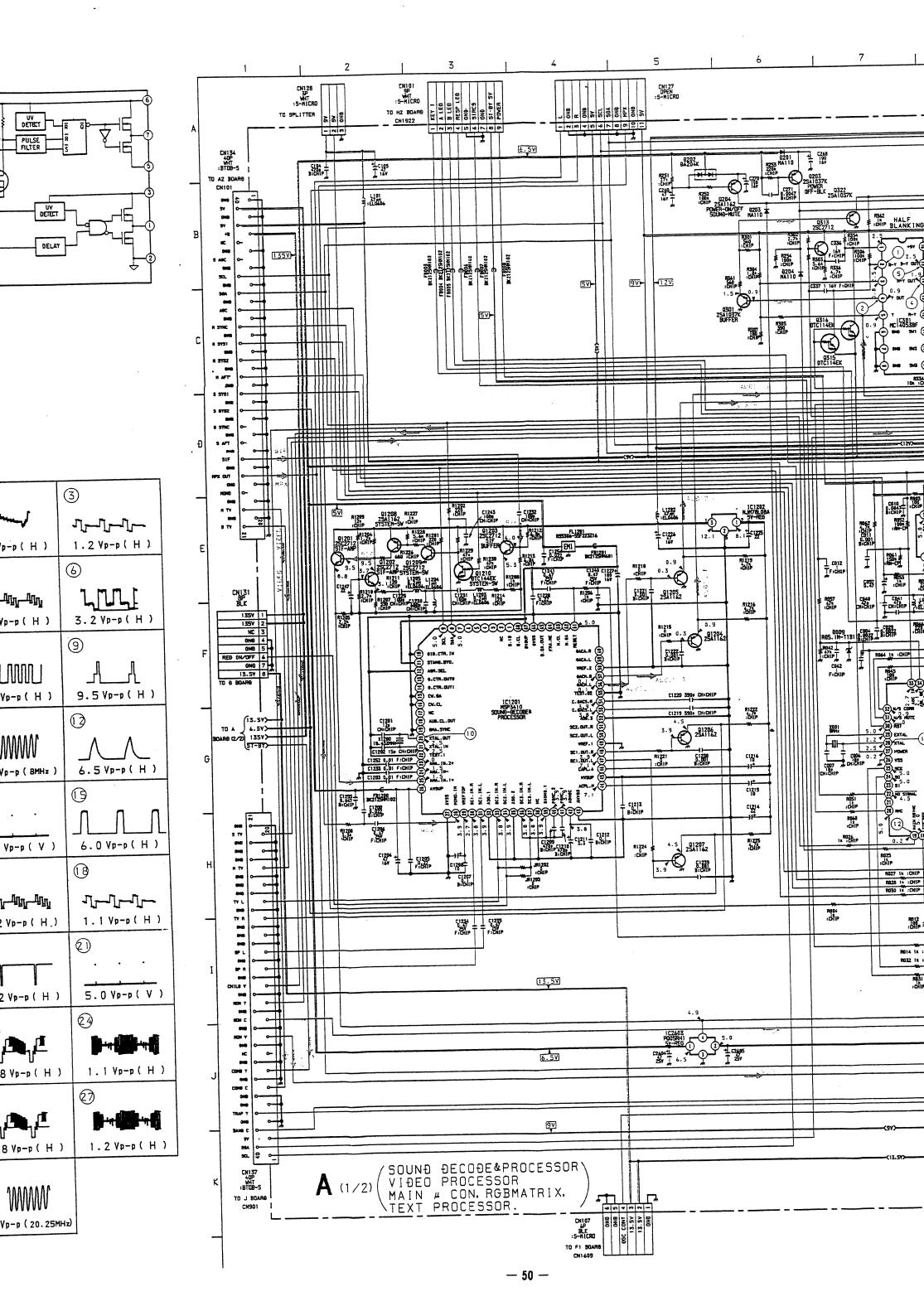
A BOARD IC602 IR2112

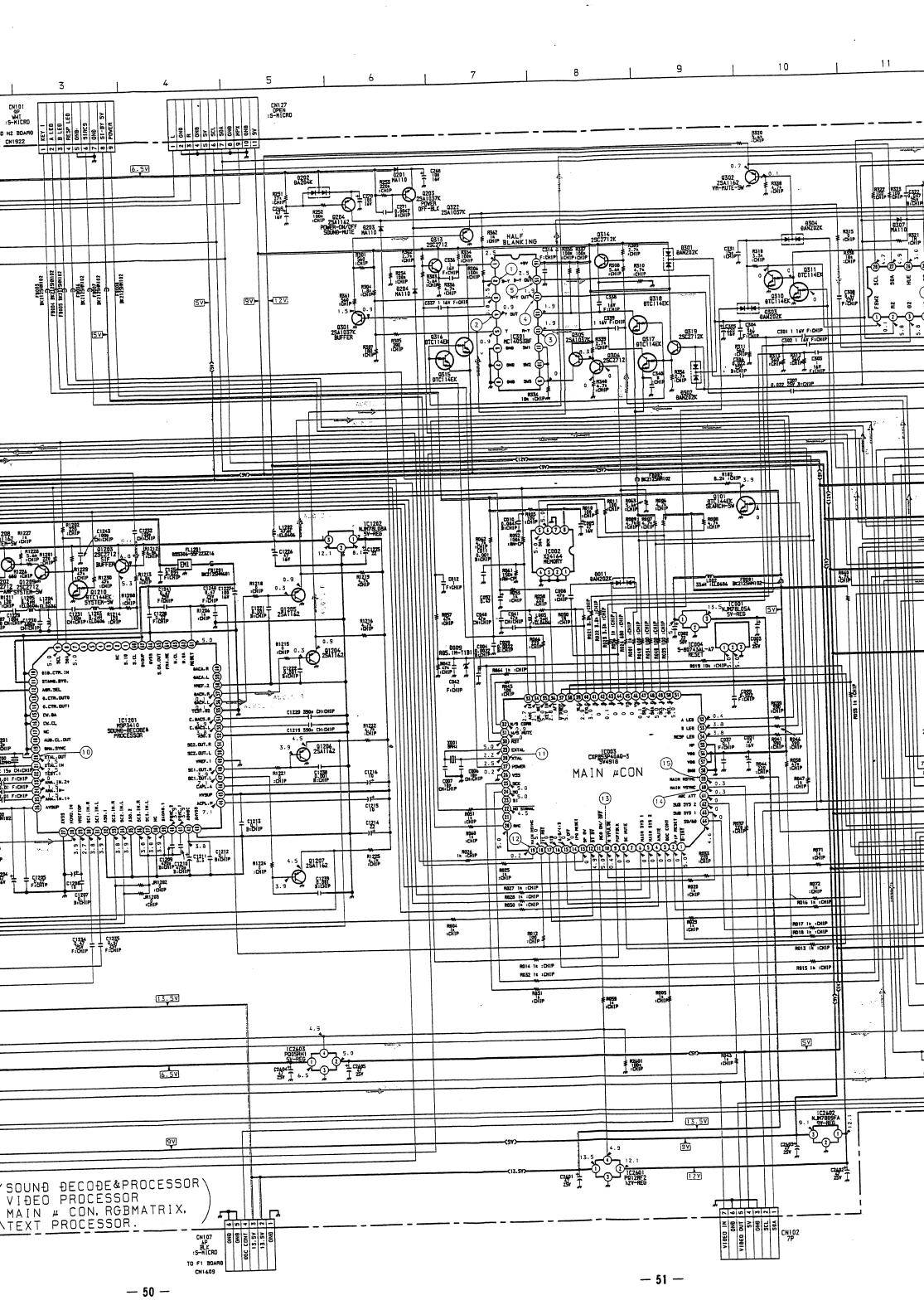


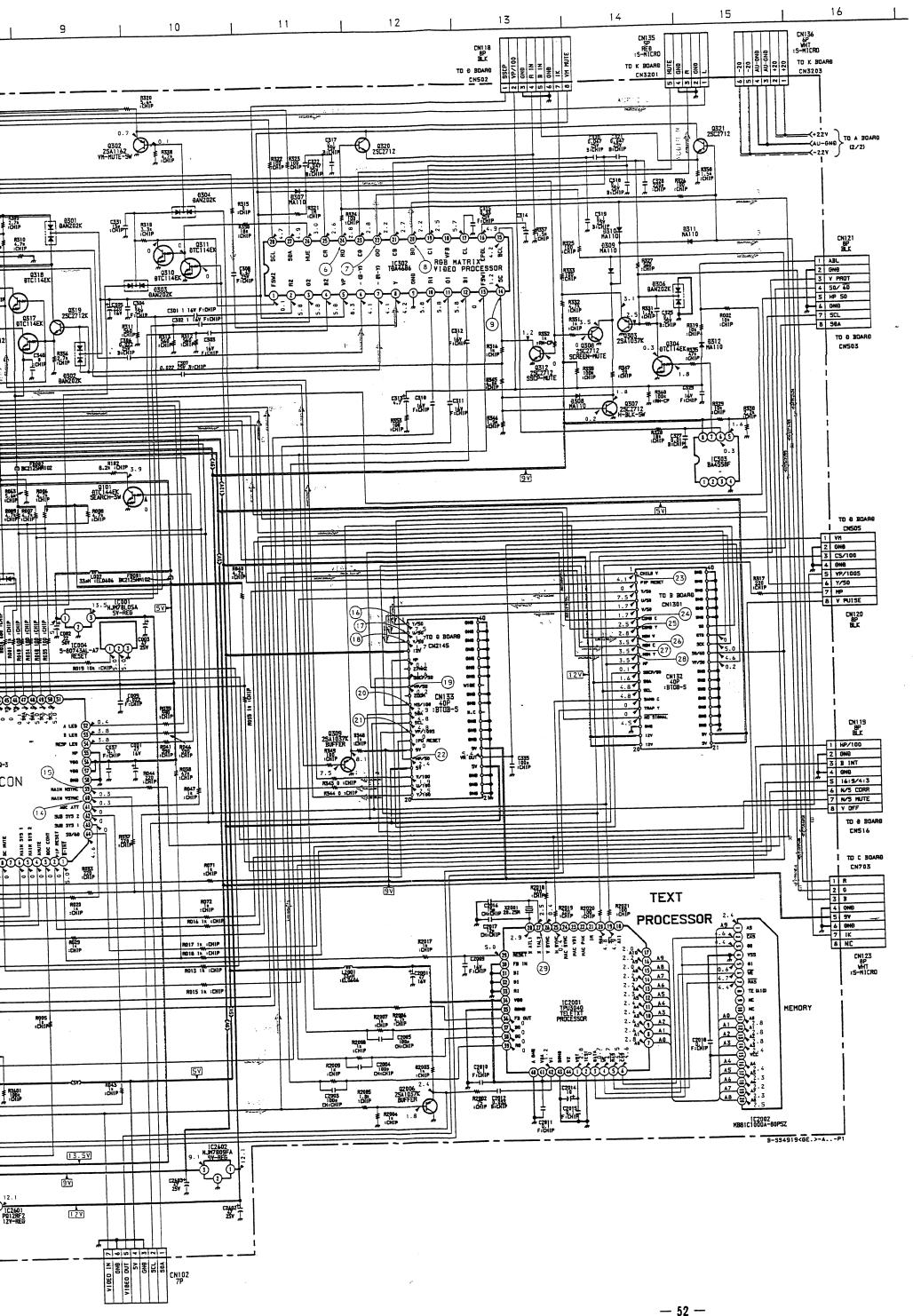
A BOARD IC301 MC14053BF



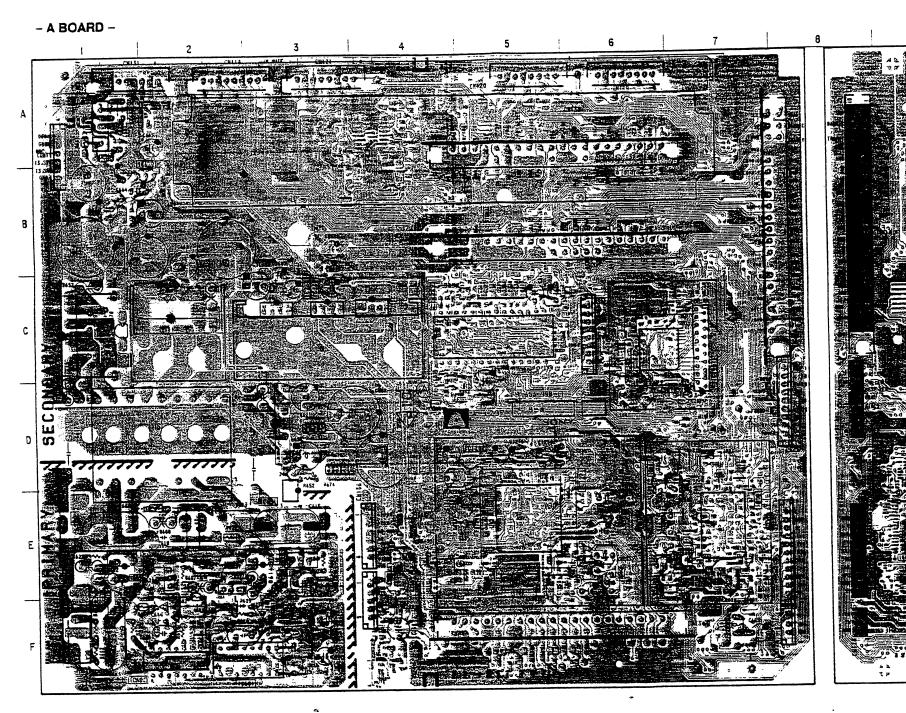
| A BOARD WAVEFORMS | | | | | |
|--------------------|---------------------------------------|----------------|--|--|--|
| 1) | 2 | 3 | | | |
| | James ! | 1/-1/-1/- | | | |
| 1.4 Vp-p(H) | 0.4 Vp-p(H) | 1.2 Vp-p(H) | | | |
| 4 | (5) | 6 | | | |
| 1.2 Vp-p(H) | <u>- Муу-Муу-Му</u> 1.4 Vp-p (Н) | 3.2 Vp-p (H) | | | |
| 7 | 8 | 9 | | | |
| 3.2 Vp-p(H) | 3.0 Vp-p (H) | 9.5 Vp-p(H) | | | |
| 10 | 0 | (2) | | | |
| 3.8 Vp-p(18.432MHz | 5.0 Vp-p (8MHz) | 6.5 Vp-p (H) | | | |
| (3) | 13 | (19 | | | |
| | | | | | |
| 4.8 Vp-p (V) | 4.8 Vp-p (V) | 6.0 Vp-p(H) | | | |
| 10 | 0 | 13 | | | |
| Promp | | 1.1 Vp-p(H) | | | |
| 1.8 Vp-p (H) | 1.2 Vp-p (H.) | - | | | |
| | | | | | |
| 4.8 Vp-p (V) | 3.2 Vp-p(H) | 5.0 Vp-p (V) | | | |
| 23 | 23 | 29 | | | |
| 一一门 | 7 | 1 1 | | | |
| 5.0 Vp-p (H) | 1.8 Vp-p(H) | 1.1 Vp-p(H) | | | |
| 29 | 29 | 27 | | | |
| 2 | 7 | 100 | | | |
| 2.0 Vp-p (H | 1.8 Vp-p (H) | 1.2 Vp-p(H) | | | |
| 28 | 29 | | | | |
| 2 | WW | | | | |
| 1.9 Vp-p (H |) 1.7 Vp-p (20.25MH | z) | | | |

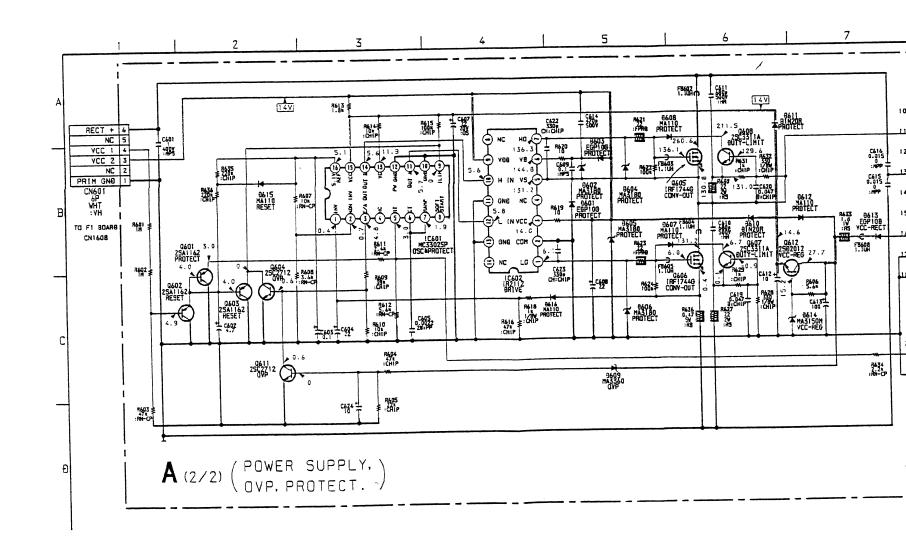




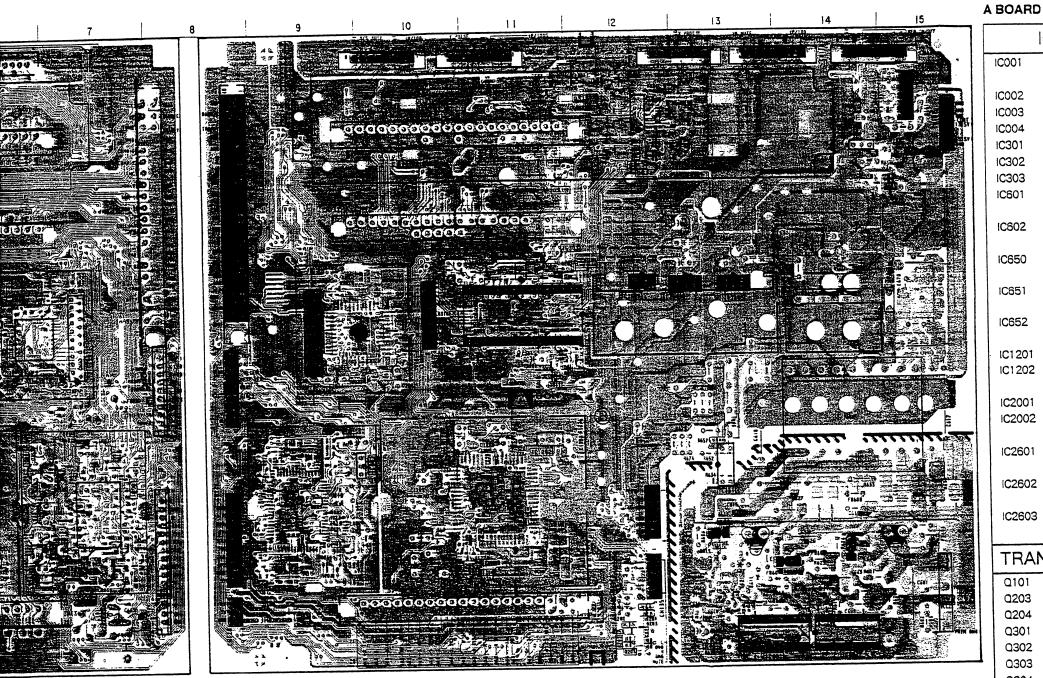


SOUND DECODE & PROCESSOR, VIDEO PROCESSOR, MAIN µCON, RGB MATRIX, TEXT PROCESSOR, POWER SUPPLY, OVP





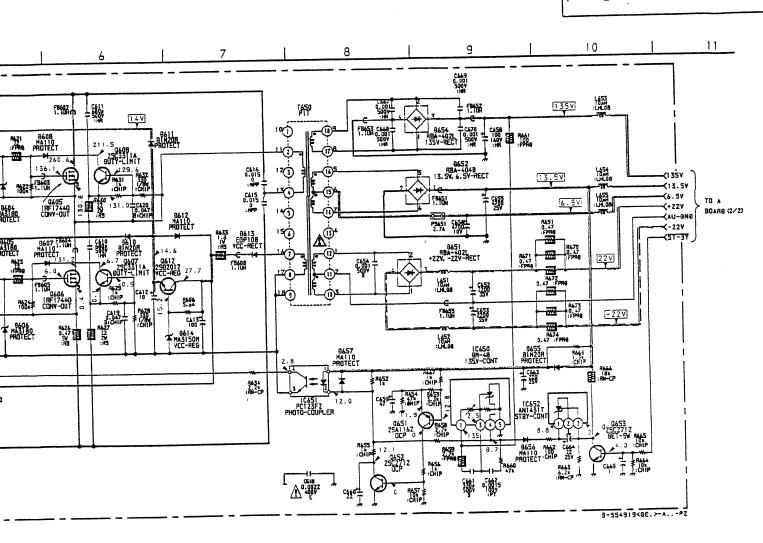
- · Pattern from the side which enables seeing.
- · Pattern of the rear side.





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



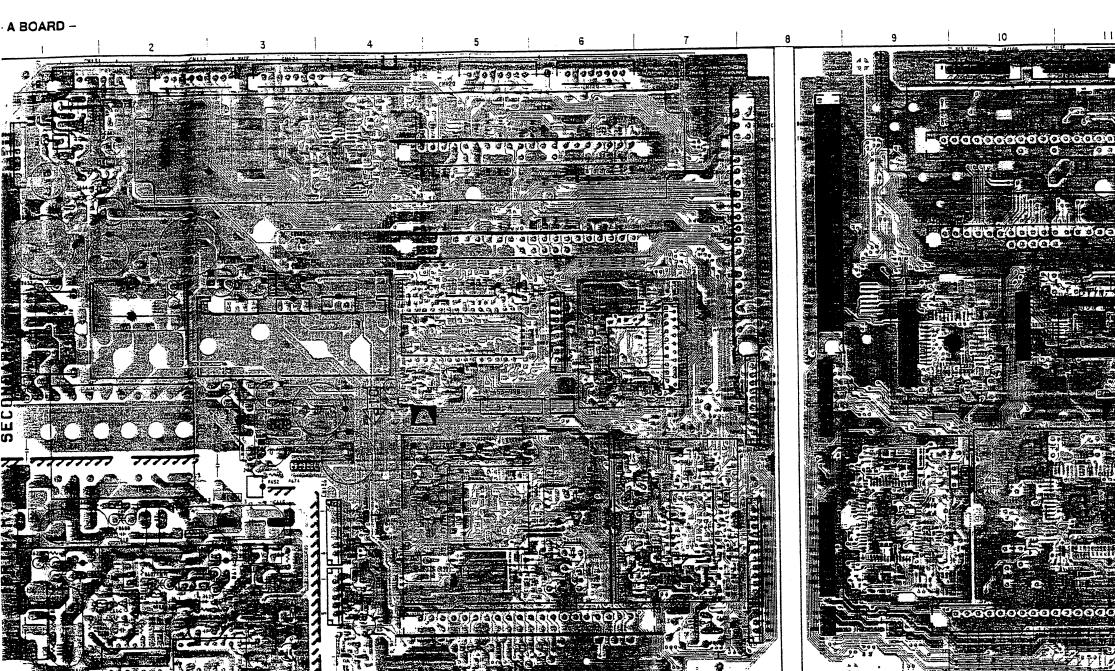
| IC | |
|------------------|-----------------|
| IC001 | D - 6, |
| | D - 9 |
| IC002 | E - 6 |
| IC003 | E - 7 |
| IC004 | |
| IC301 | A - 12 |
| IC302 | C - 5 |
| IC303 | C-11 |
| IC601 | F - 2, |
| | F-14 |
| IC602 | F - 2. |
| | F – 14 |
| IC650 | A-1, |
| | A - 15 |
| IC651 | E - 3, |
| 10050 | E - 13 |
| IC652 | B - 2. |
| 101.001 | B – 14 E – 5 |
| IC1 201 | D - 5. |
| IC1202 | D - 11 |
| 102001 | C-6 |
| IC2001 IC2002 | C - 7. |
| 102002 | C - 7. |
| IC2601 | C – 3, |
| 102001 | C - 13 |
| IC2602 | C - 4, |
| 102002 | C - 12 |
| IC2603 | C - 12 |
| 102000 | C - 13 |

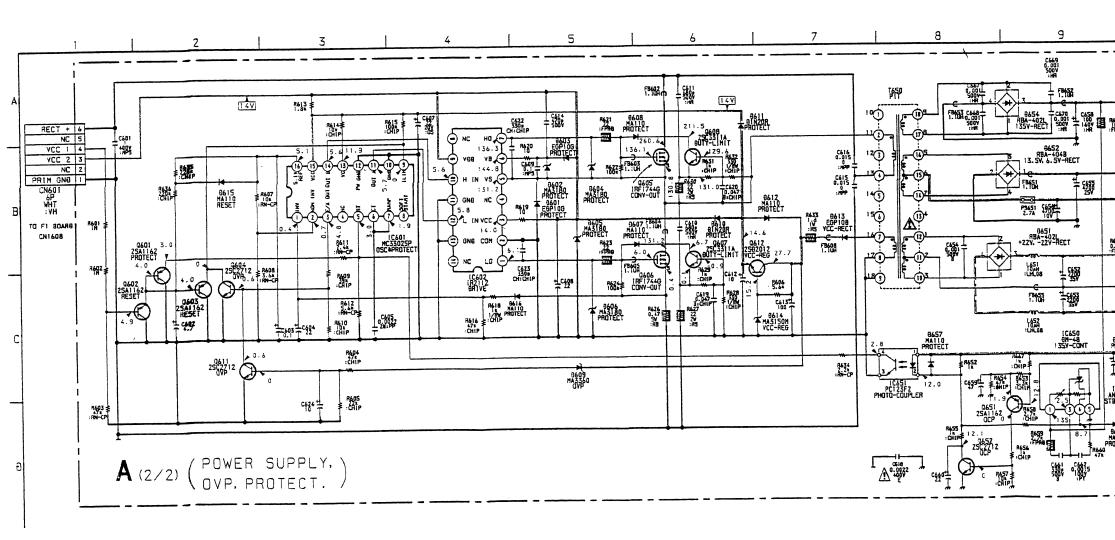
TRANSISTOR

Q101 F-12 Q203 Q204 F - 12Q301 Q302 Q303 Q304 Q305 A - 12**Q306** E-4 Q307 E - 4 **Q308**

Schematic diagram

SOUND DECODE & PROC**ES**SOR, VIDEO PROCESSOR, MAIN #CON, RGB MATRIX, TEXT PR**OCE**SSOR, POWER SUPPLY, OVP

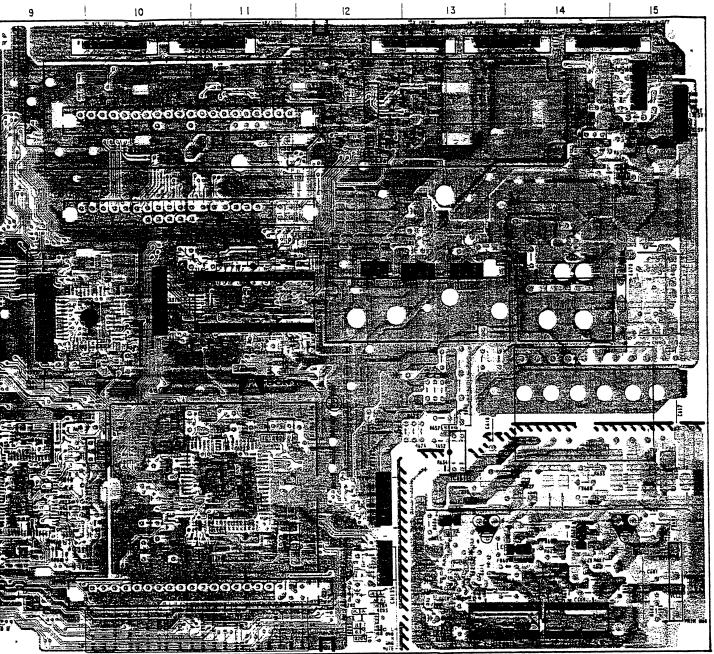


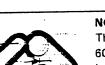


__ 5/ __

Note:

- · Pattern from the side which enables seeing.
- · Pattern of the rear side.



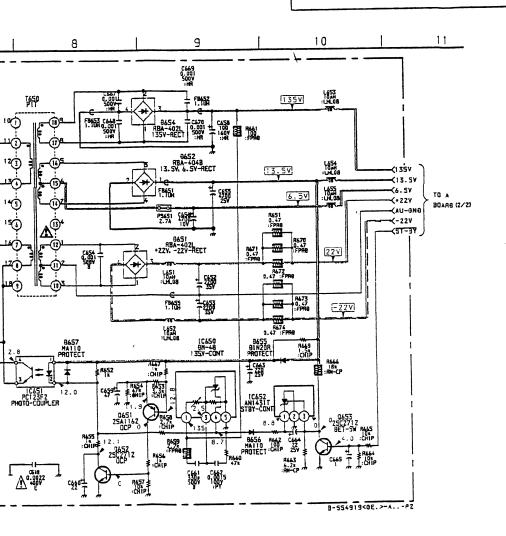


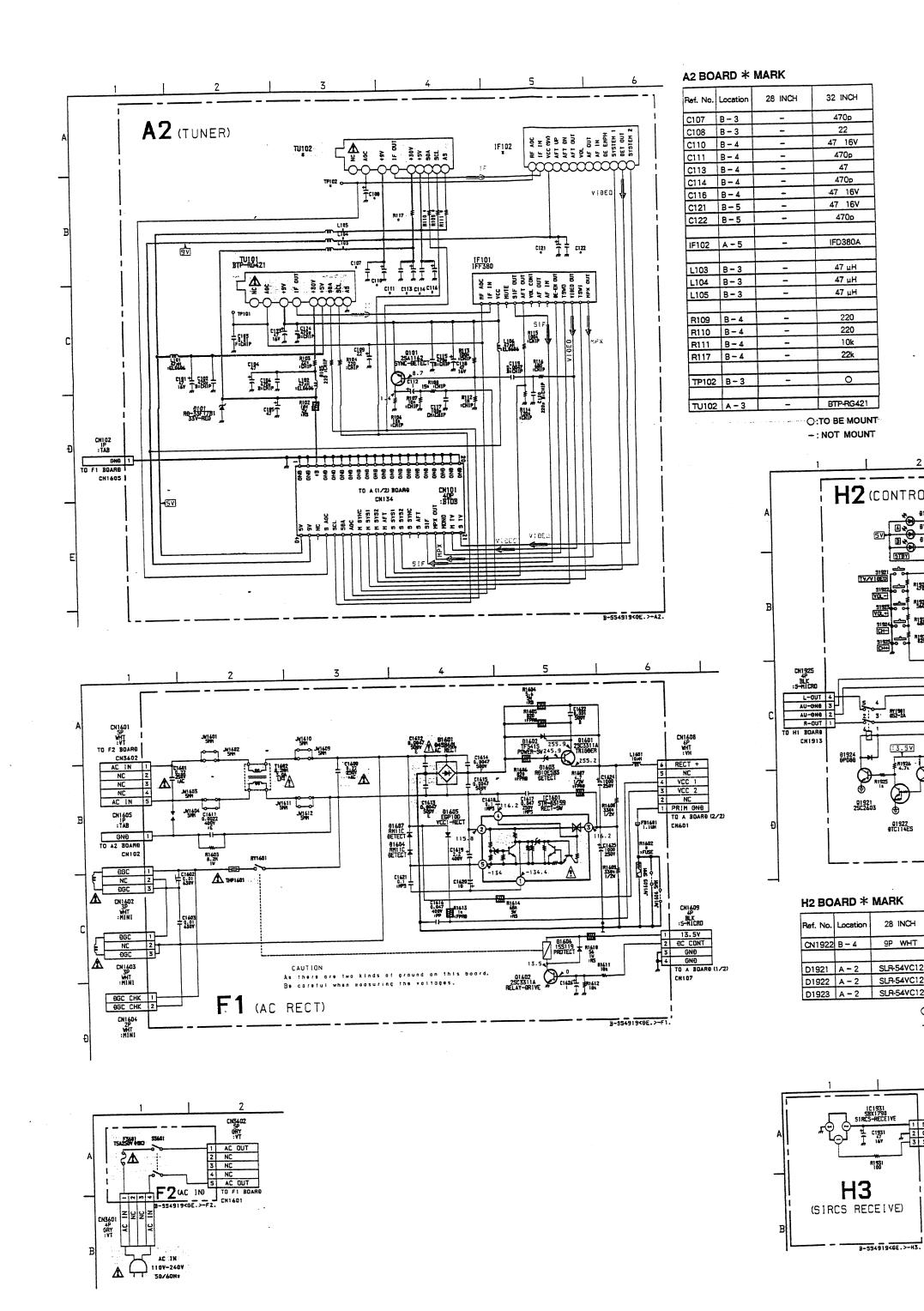
NOTE:

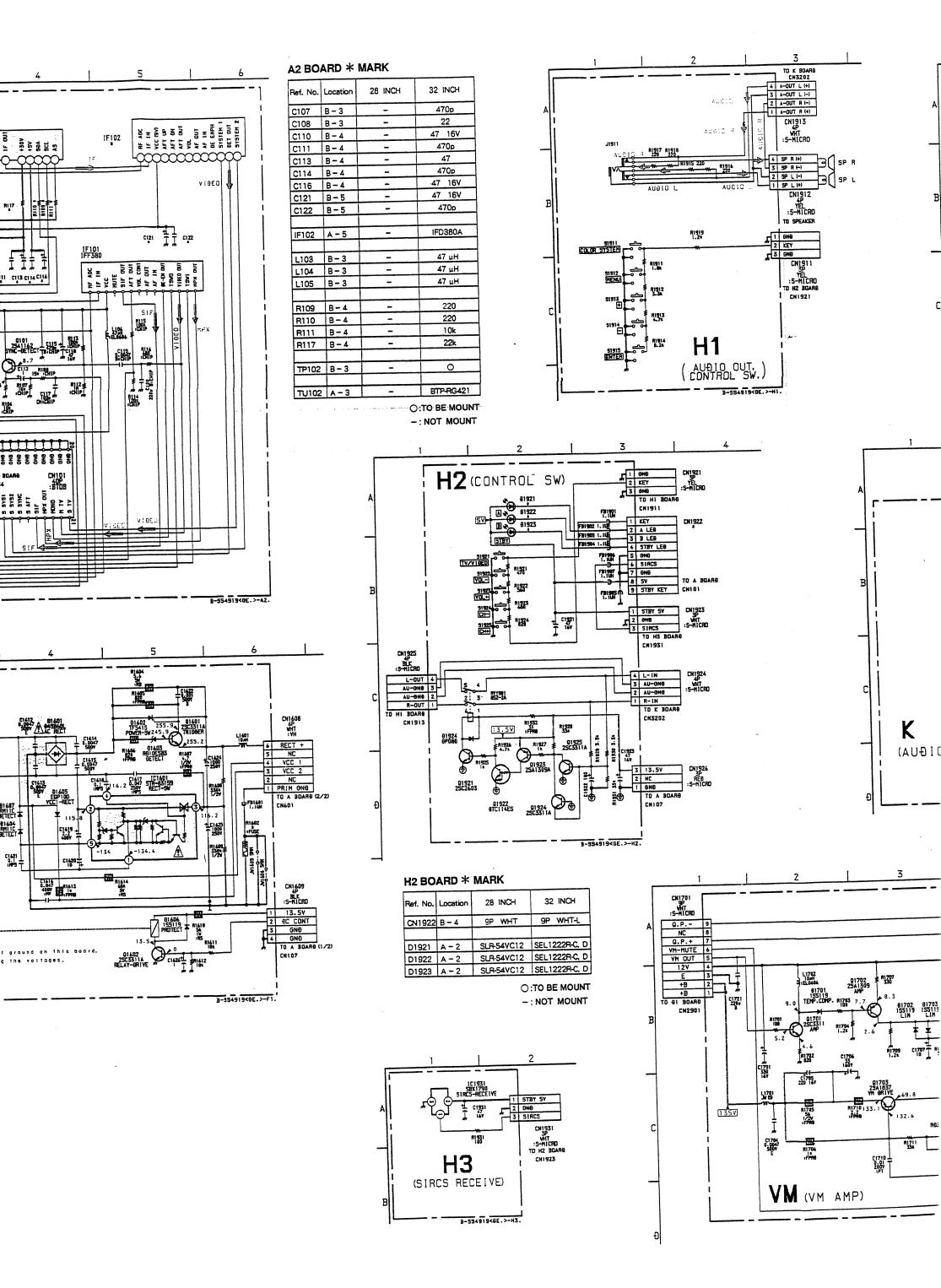
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

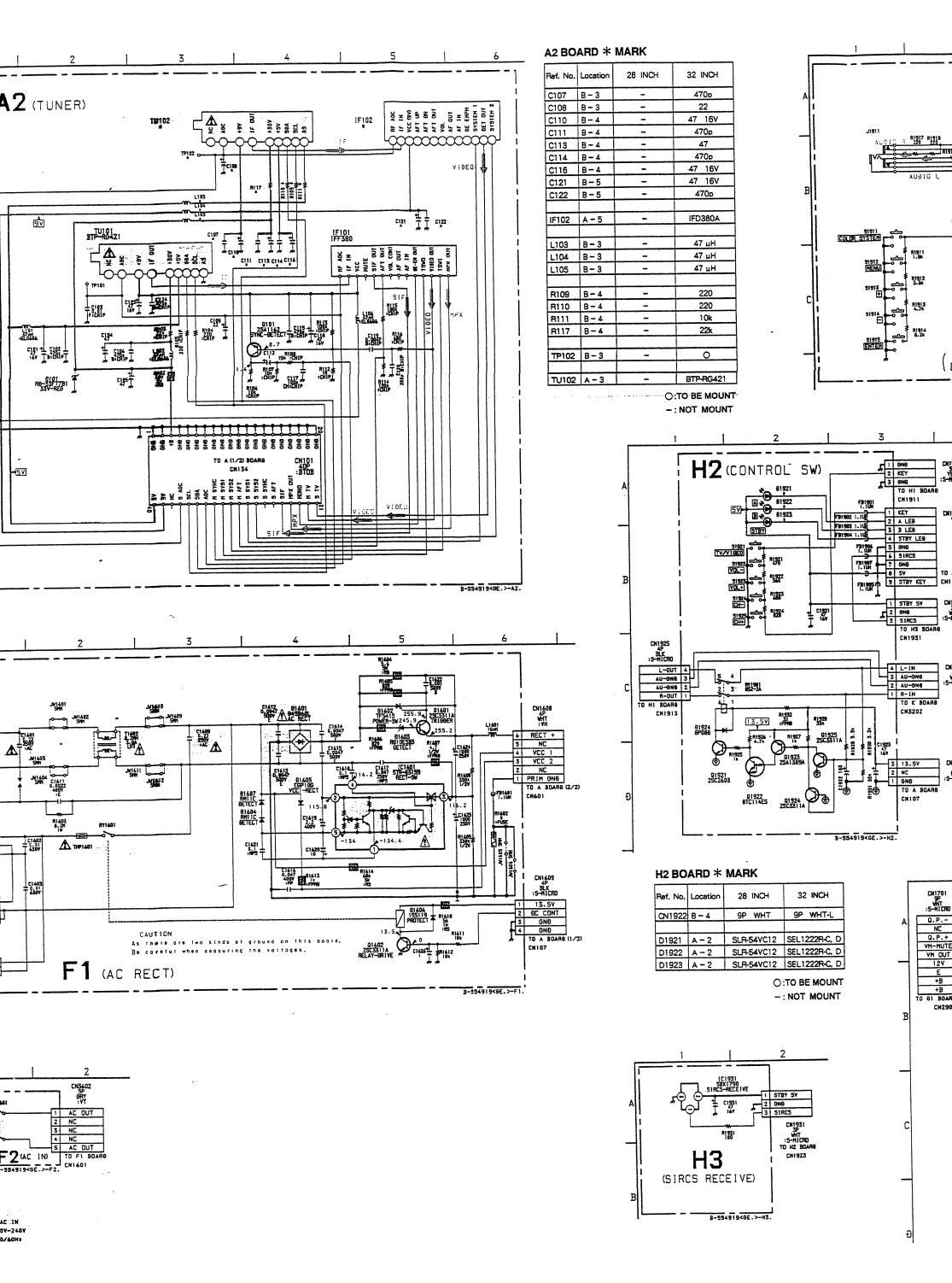
A BOARD

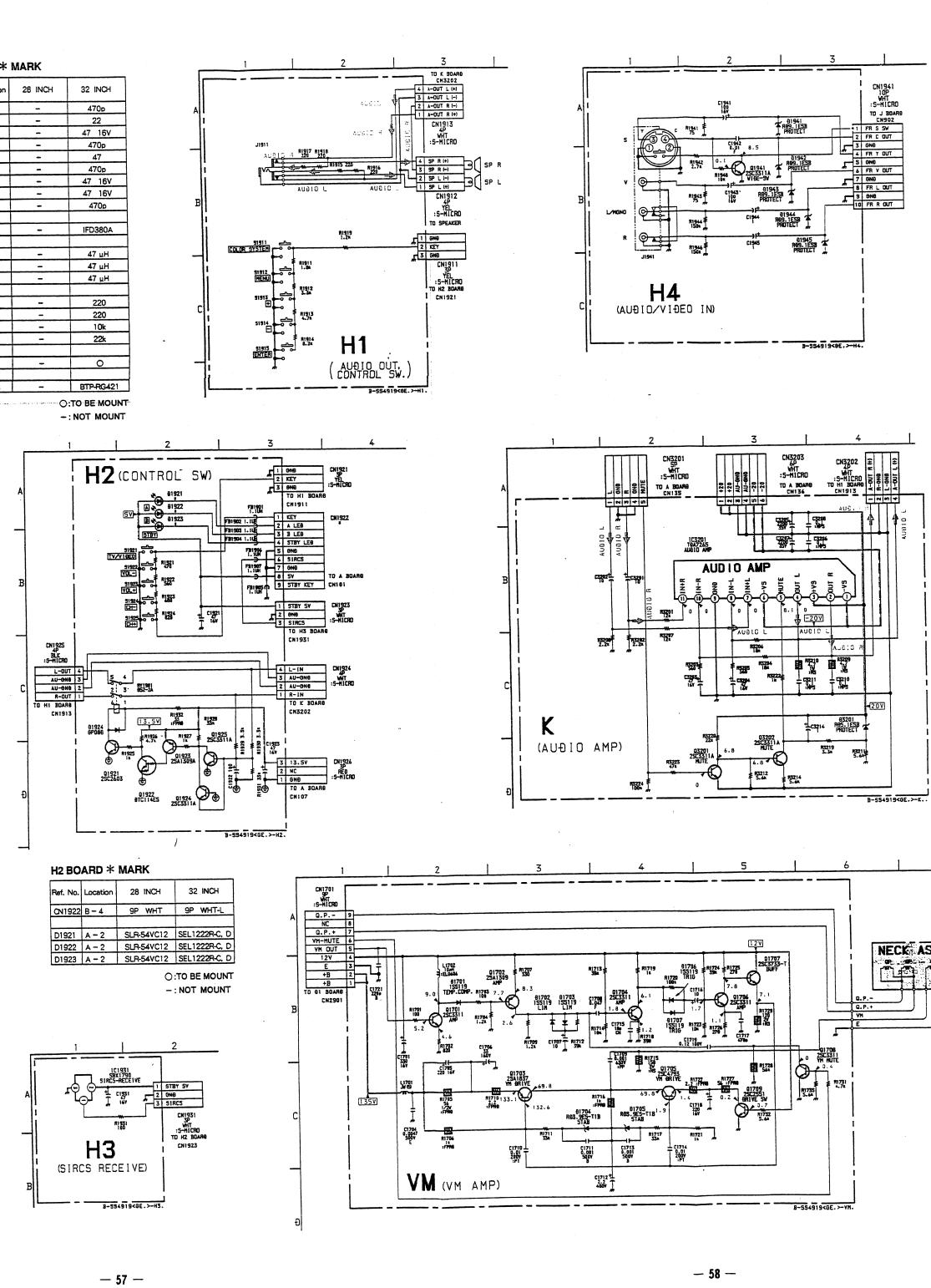
| A BOARD | | | | | |
|----------|---------------|--------|----------|--------|------------------|
| 1 | С | Q309 | A - 11 | D303 | D - 9 |
| | | Q310 | D - 11 | D304 | D - 12 |
| IC001 | D - 6, | Q311 | D - 11 | ·.D305 | |
| | D-9 | Q312 | C - 11 | D306 | C - 11 |
| IC002 | E - 6 | Q601 | F-3 | D307 | C - 11 |
| IC003 | E-7 | Q602 | F - 3 | D308 | E - 4 |
| IC004 | | 0603 | F-3 | D309 | C - 10 |
| IC301 | A - 12 | 0604 | F-3 | D310 | C - 10 |
| IC302 | C-5 | Q605 | E - 1, | D311 | C - 10 |
| IC303 | C - 11 | | E - 15 | D601 | F - 2. |
| IC601 | F - 2, | 2606 | E - 3, | | F-14 |
| | F-14 | | E - 13 | D602 | E - 2 |
| IC602 | F – 2. | Q607 | E - 2, | D603 | F - 2. |
| | F-14 | | E-14 | | F-14 |
| IC650 | ∴ A – 1, | 2608 | E - 2, | D604 | E-2 |
| , | A - 15 | | E-14 | D605 | F-14 |
| IC651 | E – 3, | Q611 | F-3 | D606 | F-2 |
| | E - 13 | Q612 | E - 3. | D607 | E-2 |
| IC652 | B - 2, | | E-13 | D608 | E-1 |
| | B - 14 | Q651 | B - 15 | D609 | F-3 |
| · IC1201 | E-5 | Q652 | B - 15 | D610 | F – 2, |
| IC1202 | D - 5, | Q653 | A - 14 | | F-13 |
| | D – 11 | Q1201 | E - 10 | D611 | F - 3, |
| IC2001 | C - 6 | Q1202 | E - 10 | | F – 13 |
| IC2002 | C - 7, | Q1203 | E - 10 | D612 | E-13 |
| | C-9 | Q1204 | E-11 | D613 | E - 2, |
| IC2601 | C - 3, | Q1205 | E - 11 | | E-14 |
| | C - 13 | Q1206 | E-11 | D614 | E – 3 |
| IC2602 | C - 4, | Q1207 | D - 10 | D615 | F - 13 |
| | C - 12 | Q1208 | E - 11 | D651 | D - 13 |
| IC2603 | C - 3, | Q1209 | E - 10 | D652 | C - 2, |
| | C - 13 | Q1210 | F - 10 | | C - 14 |
| TRAN | SISTOR | 02006 | C-9 | D654 | C - 1, |
| Q101 | E-9 | DI | ODE | D655 | C - 15 C - 2. |
| 0203 | F – 12 | D009 | E - 9 | 1 5555 | C - 14 |
| Q204 | F - 12 | D010 | E - 9 | D656 | A - 15 |
| Q301 | A - 13 | D011 | E-7 | D657 | D - 13 |
| Q302 | C - 11 | 0011 | E-9 | 555, | 5 13 |
| 0303 | C - 10 | D201 | F - 12 | | |
| Q304 | C - 11 | D202 | F-4 | | |
| 0305 | A - 12 | D202 | F – 12 | | |
| Q306 | A - 12 | D203 | F - 12 | | |
| Q307 | E-4 | D301 | C - 12 | | |
| 0308 | E – 4 | D302 | D - 10 | | |
| | | 1 0002 | <u> </u> | | |

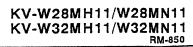








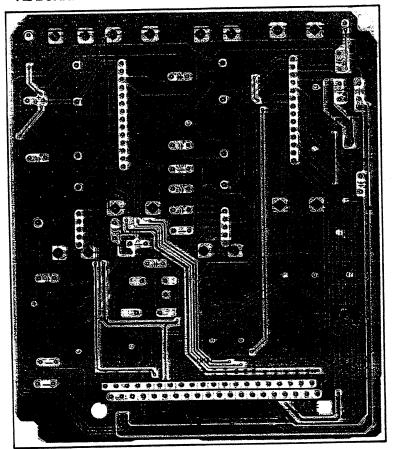




KV-W28MH11/W28MN11 KV-W32MH11/W32MN11 RM-850



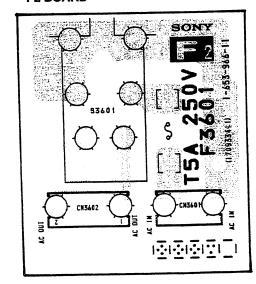
- A2 BOARD -



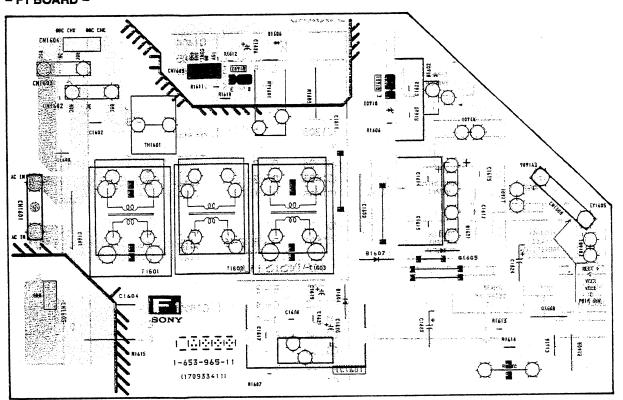
Note :

· Pattern from the side which enables seeing.

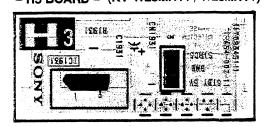
- F2 BOARD -



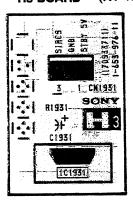
- F1 BOARD -

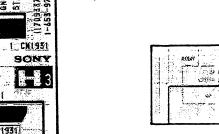


- H3 BOARD - (KV-W28MH11 / W28MN11)

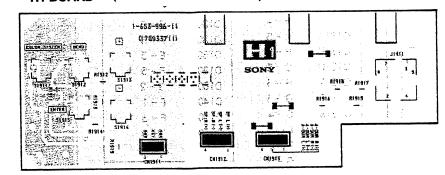


- H3 BOARD - (KV-W32MH11 / W32MN11)

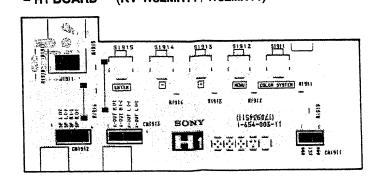




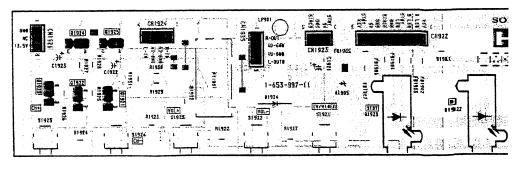
- H1 BOARD - (KV-W28MH11 / W28MN11)



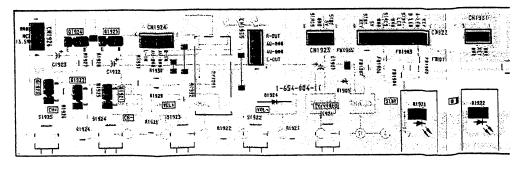
- H1 BOARD - (KV-W32MH11/W32MN11)

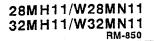


- H2 BOARD - (KV-W28MH11 / W28MN11)



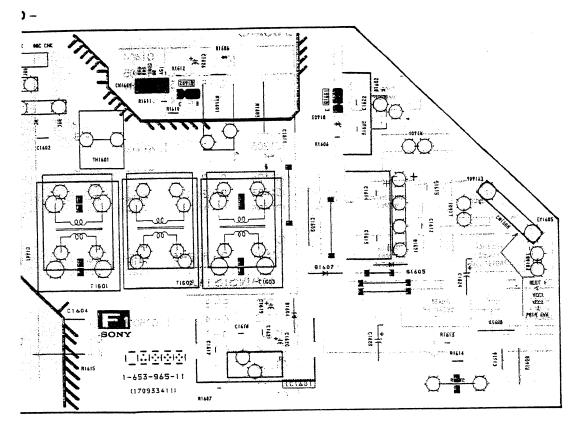
- H2 BOARD - (KV-W32MH11 / W32MN11)

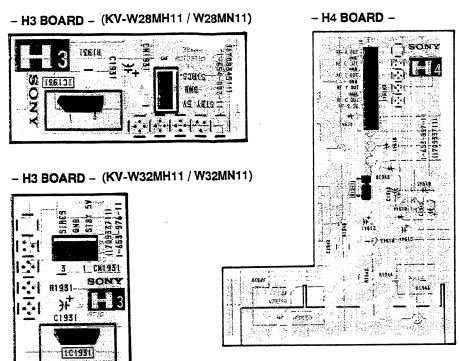


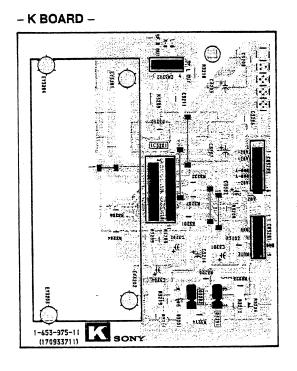


KV-W28MH11/W28MN11 KV-W32MH11/W32MN11

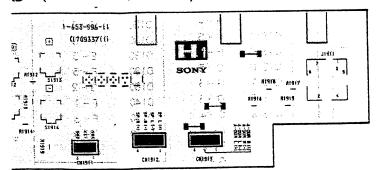


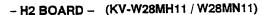


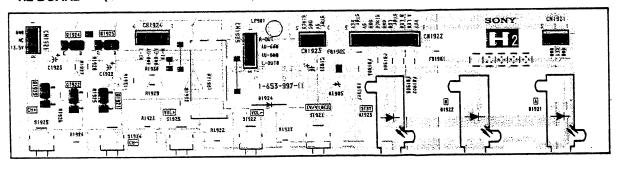




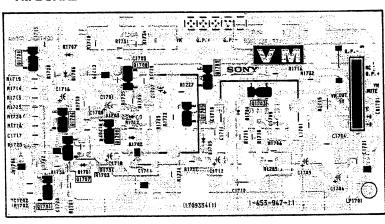
3D - (KV-W28MH11/W28MN11)



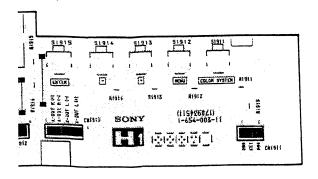




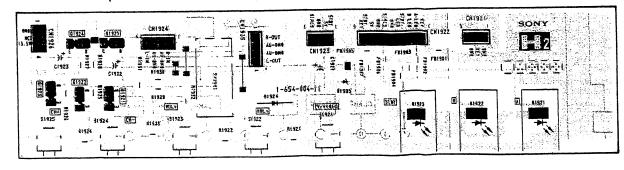
~- VM BOARD --



RD - (KV-W32MH11/W32MN11)



- H2 BOARD - (KV-W32MH11 / W32MN11)



SWITCH

ĐELAY

SWITCHE

B BOARD IC1302 TDA9145/N2B

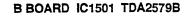
IZCBUS

ACC

PEAKING

TRRPS

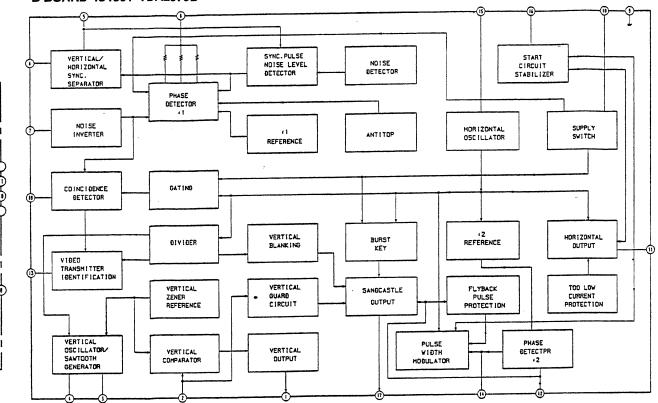
SWITCH



IÐENT

PAL/NTSC ĐEMĐĐ

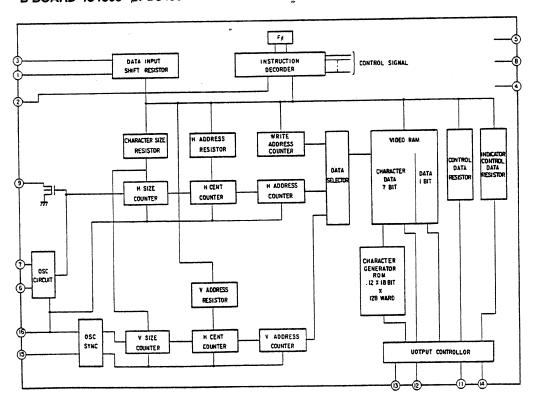
BIAS



B BOARD

| 5 BOARD | | | | | |
|-----------|--------------|----------|--------|--|--|
| | IC | Q1404 | G – 3 | | |
| 101.001 | 0 5 5 5 | Q1405 | F-3 | | |
| IC1301 | C-5, F-5 | Q1407 | E-3 | | |
| IC1302 | D-4, E-4 | Q1408 | D-3 | | |
| IC1303 | B-4 | Q1409 | D-3 | | |
| IC1304 | B-5 | Q1410 | F-3 | | |
| IC1305 | B – 2 | Q1411 | G – 2 | | |
| IC1401 | B - 3, G - 3 | 01412 | F-3 | | |
| IC1404 | D-2 | Q1413 | G – 2 | | |
| IC1405 | D-2 | Q1414 | F-1 | | |
| IC1406 | D-1 (| · Q1415 | C - 1 | | |
| IC1407 | B - 2, G - 2 | Q1416 | C-1 | | |
| IC1408 | B-1, G-1 | Q1417 | E-1 | | |
| IC1501 | D-6, E-6 | Q1418 | F-1 | | |
| TDAN | ISISTOR | Q1421 | F-3 | | |
| INAI | | 01422 | C - 2 | | |
| Q1301 | E-3 | Q1423 | C-1 | | |
| Q1302 | E-4 | Q1501 | F-6 | | |
| Q1303 | D - 3 | Q1502 | C-5 | | |
| Q1304 | E-3 | Q1505 | E-6 | | |
| Q1305 | C - 4 | Q1506 | E-6 | | |
| Q1306 | D-5 | Q1507 | F-5 | | |
| Q1307 | F - 5 | Q1508 | E-6 | | |
| Q1308 | C-5 | DI | ODE | | |
| Q1309 | G – 6 | יוט | ODE | | |
| Q1310 | G – 5 | D1301 | B-4 | | |
| Q1311 | G – 5 | D1302 | E-4 | | |
| Q1312 | H – 4 | D1303 | E-5 | | |
| 01314 | H - 5 | D1304 | F-5 | | |
| 01315 | H-5 | D1305 | E-5 | | |
| Q1316 | G - 5 | D1307 | F-5 | | |
| 01317 | G - 6 | D1309 | G – 2 | | |
| Q1318 | G – 5 | D1401 | F-1 | | |
| Q1319 | C-4 | D1402 | F-3 | | |
| Q1320 | E-4 | D1501 | F – 4 | | |
| Q1323 | F - 2 | D1502 | F – 4 | | |
| Q1324 | G - 5 | 1/45 | NADIE | | |
| Q1325 G-5 | | ł | RIABLE | | |
| Q1401 | F - 3 | RESISTOR | | | |
| Q1402 | C-3 | RV1501 | D-5 | | |
| Q1403 | G – 3 | 1 100 | | | |

B BOARD IC1305 μPD6456



TIHING

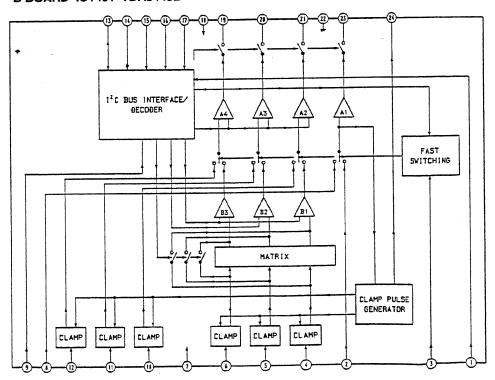
FOCTAL

SECAM DEMOD

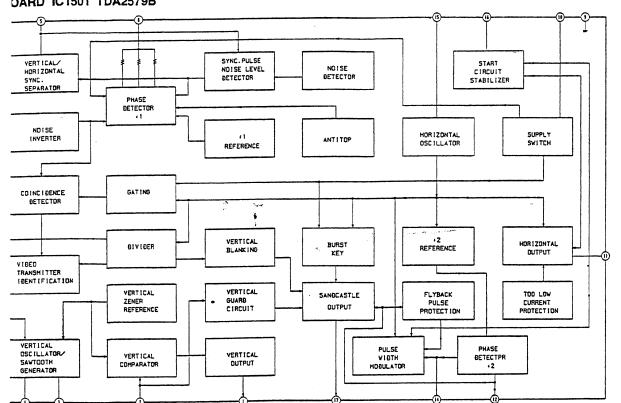
HUE

DOUBLER

B BOARD IC1401 TDA8443B







B BOARD IC1401 TDA8443B

B BOARD

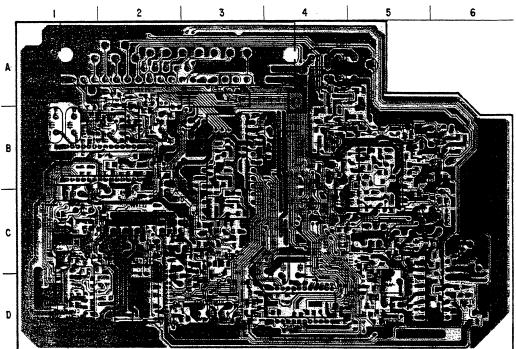
| IC | | Q1404 | G – 3 | |
|----------------|-----------------------|----------|-------|---|
| IC1301 (| C - 5, F - 5 | Q1405 | F-3 | |
| | 0 - 4. E - 4 | Q1407 | E - 3 | |
| | 3-4, 2-4 | Q1408 | D-3 | |
| | 3-5 | Q1409 | D - 3 | |
| | 1 | Q1410 | F-3 | |
| | 3-2 | 01411 | G – 2 | |
| | 3 - 3, G - 3 | Q1412 | F-3 | |
| | D = 2 D = 2 | Q1413 | G – 2 | 1 |
| | i | Q1414 | F – 1 | |
| | D-1 | Q1415 | C - 1 | |
| | B - 2, G - 2 | Q1416 | C - 1 | |
| | B - 1, G - 1 | Q1417 | E - 1 | l |
| IC1501 | D - 6, E - 6 | Q1418 | F – 1 | l |
| TRANS | ISTOR | Q1421 | F - 3 | |
| | | Q1422 | C - 2 | l |
| | E-3 | Q1423 | C - 1 | |
| | E-4 | Q1501 | F - 6 | |
| | D - 3 | Q1502 | C - 5 | |
| | E-3 | Q1505 | E - 6 | ١ |
| | C – 4 | Q1506 | E - 6 | |
| | D - 5 F - 5 | Q1507 | F - 5 | |
| | | Q1508 | E-6 | |
| | C-5 | DI | ODE | ١ |
| | G - 6 | | | 4 |
| | G - 5 | D1301 | B - 4 | |
| | G – 5 H – 4 | D1302 | E - 4 | 1 |
| - | | D1303 | E-5 | 1 |
| Q1314 Q1315 | H - 5 | D1304 | F-5 | I |
| Q1315 | H – 5 G – 5 | D1305 | E - 5 | |
| | G-5 G-6 | D1307 | F-5 | |
| Q1317 | G - 5 | D1309 | G-2 | |
| Q1318 Q1319 | C-4 | D1401 | F-1 | |
| Q1319 Q1320 | E-4 | D1402 | F-3 | |
| Q1323 | F-2 | D1501 | F – 4 | l |
| | G-5 | D1502 | F - 4 | |
| Q1324 Q1325 | G - 5 | VAR | IABLE | 1 |
| Q1401 | F-3 | RESISTOR | | 1 |
| | | | | 1 |
| | | RV1501 | D-5 | |
| Q1402 Q1403 | C - 3 G - 3 | RV1501 | D-5 | |

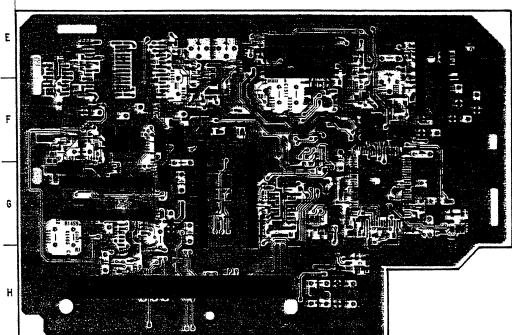
- B BOARD -

В

CHROMA DECORDER, 1H DELAY, P IN P,

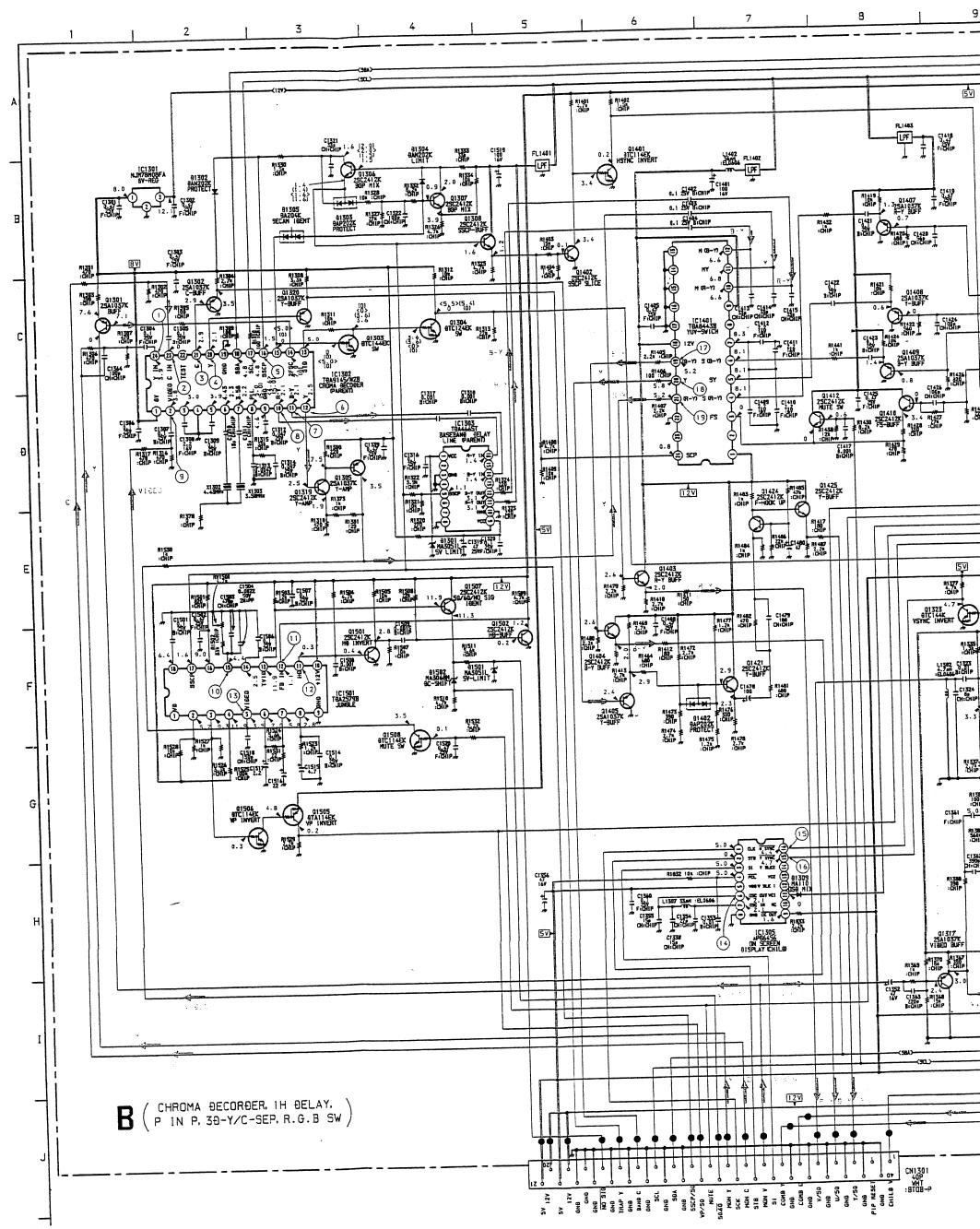
3D-Y/C-SEP, R. G. B SW



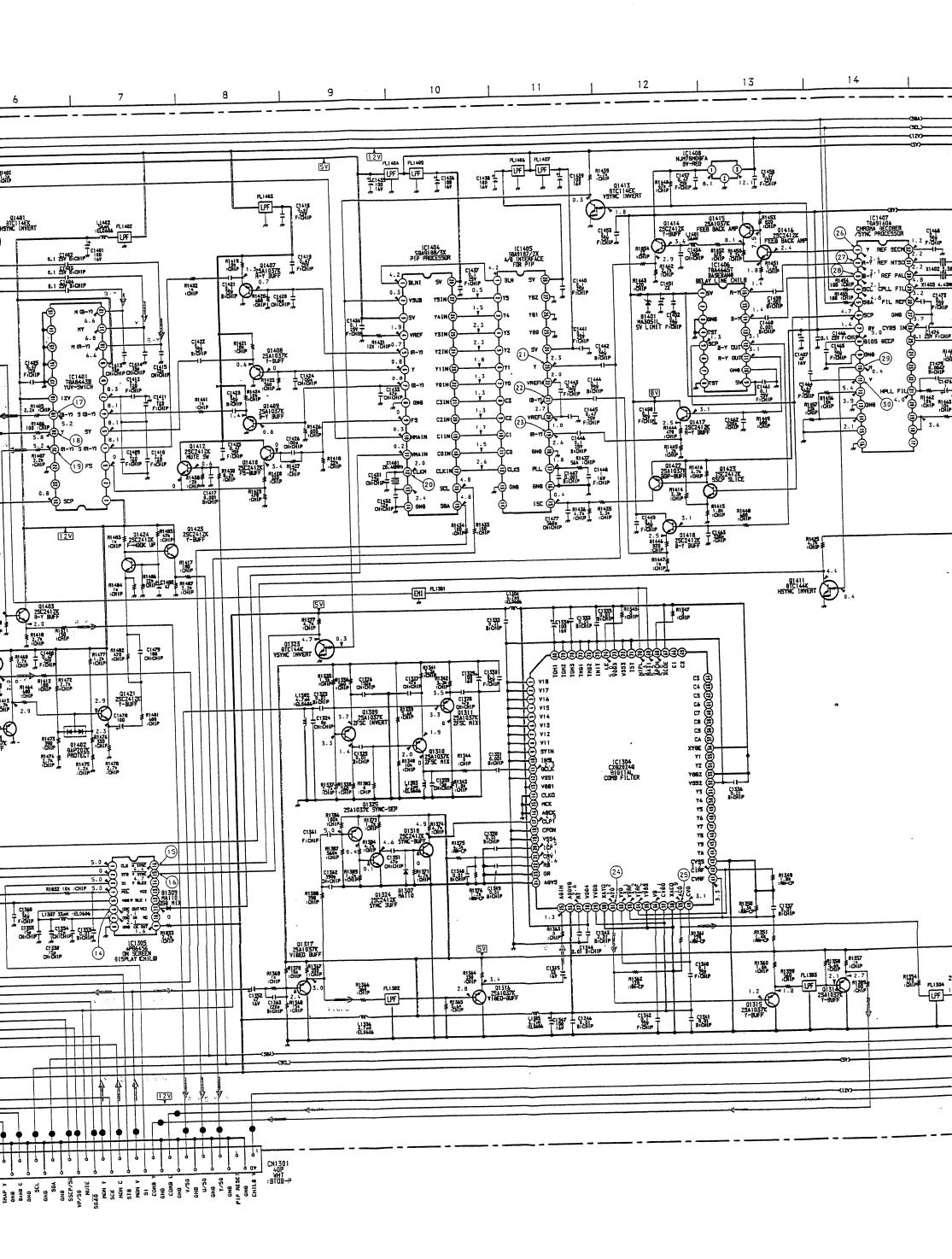


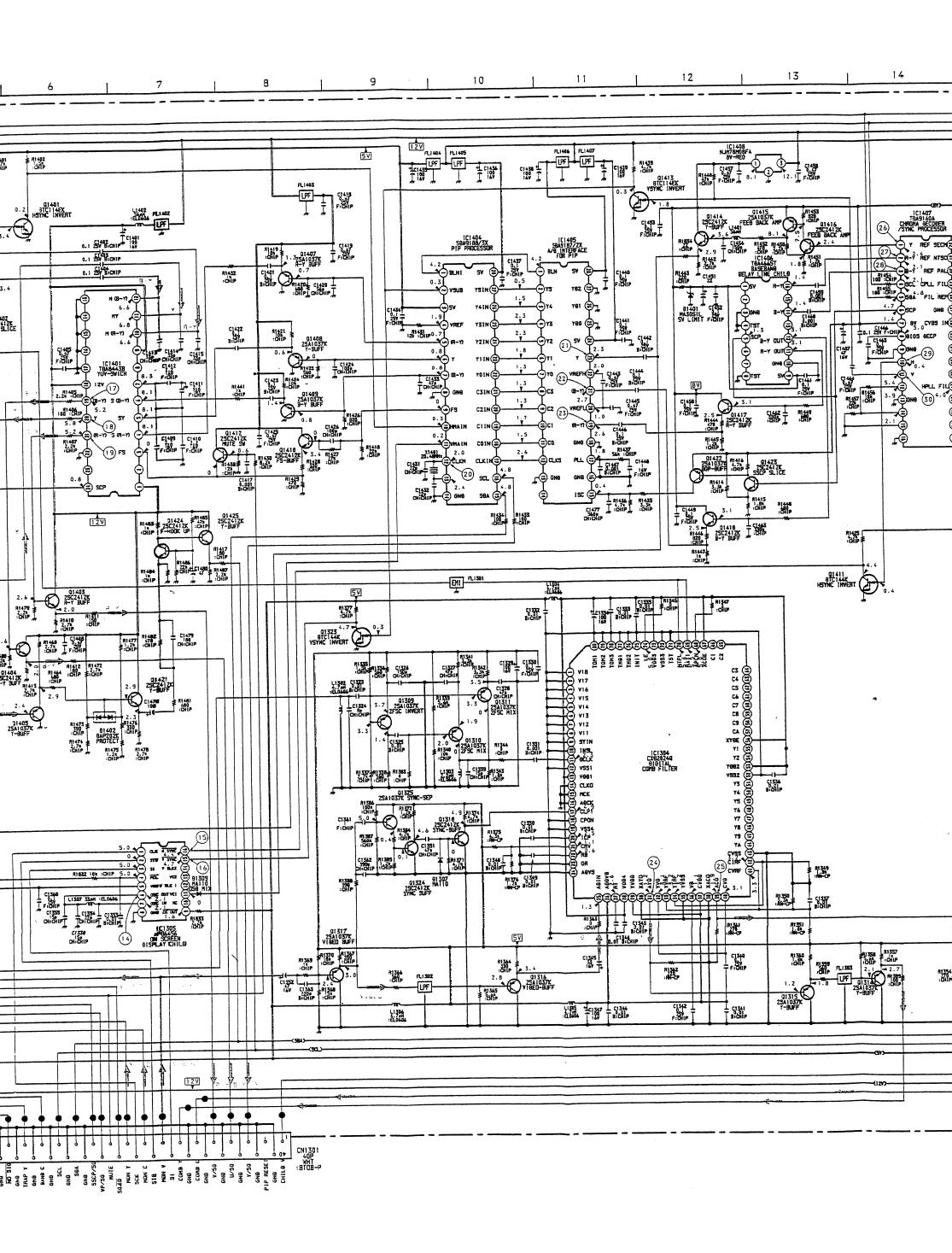
Note:

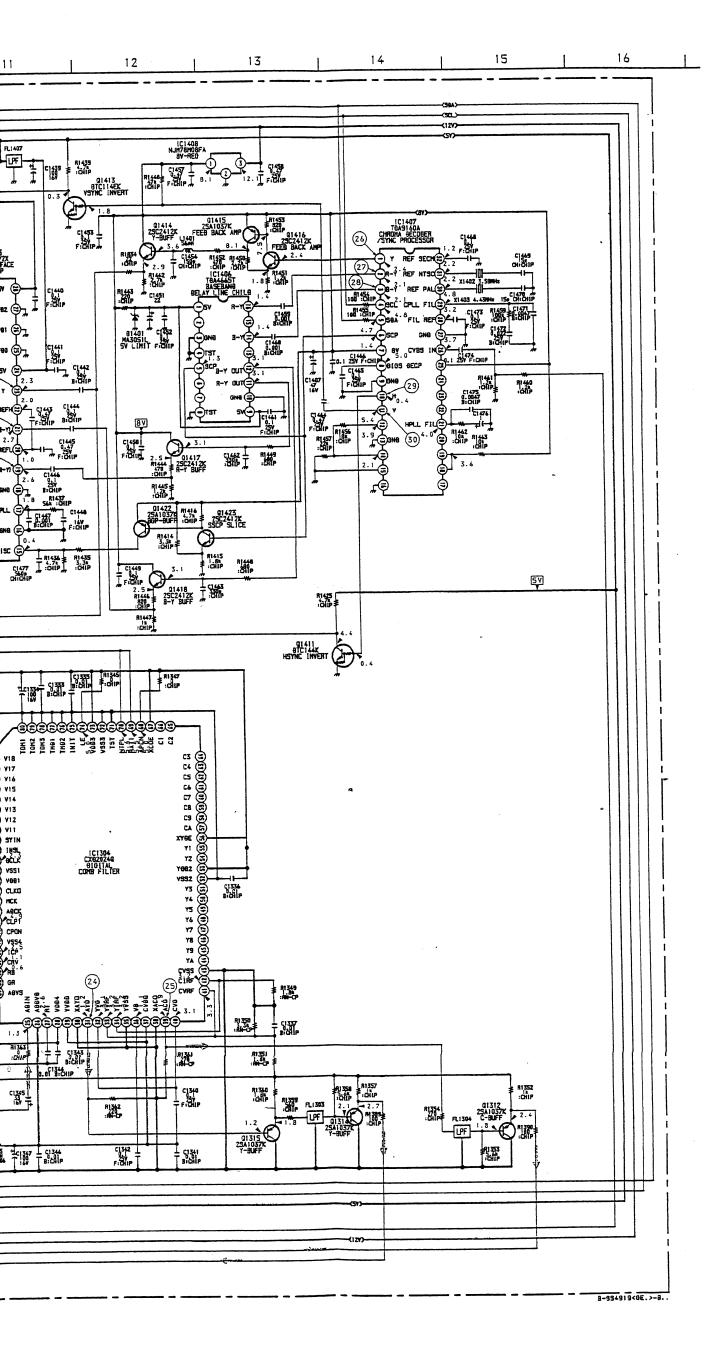
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.



- 66 -

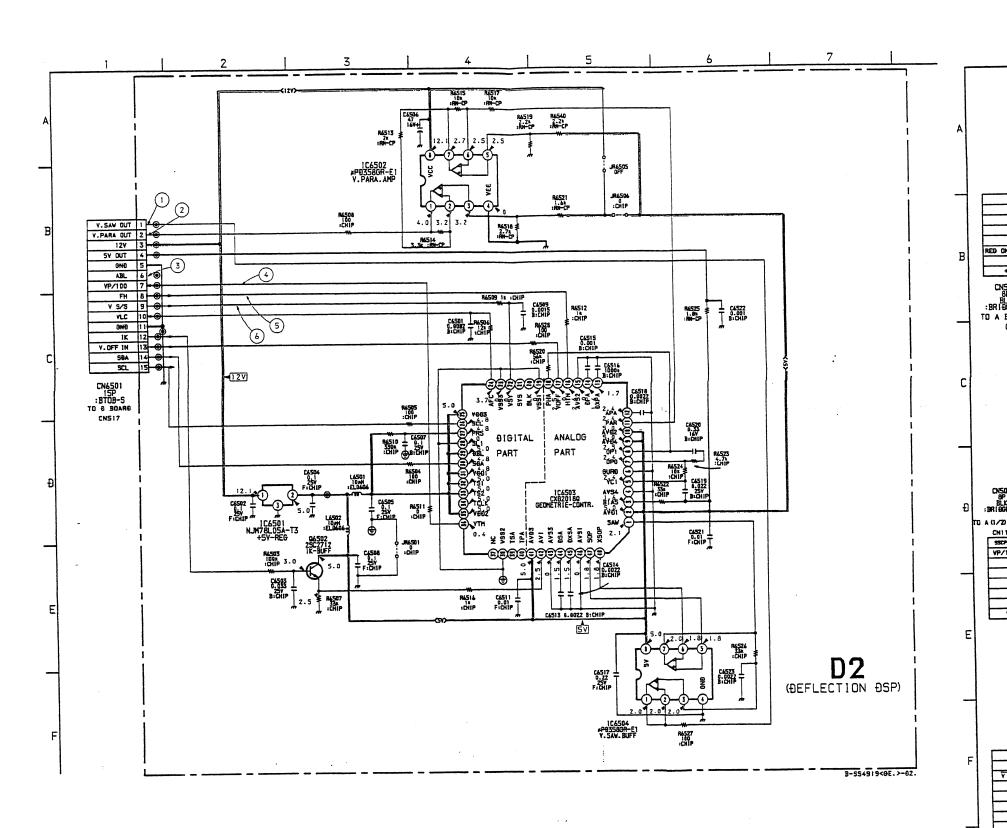




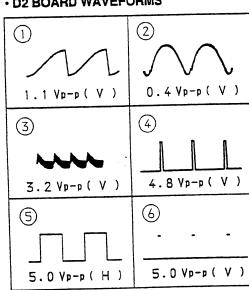


• B BOARD WAVEFORMS

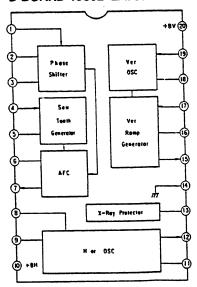
| - B BOARD WATER OF | 11110 | |
|------------------------|--|----------------------|
| 1 | 2 | 3 |
| Phone - | 1-41-4 | |
| 0.95 Vp-p(H) | 0.6 Vp-p(H) | PAL1.4 Vp- |
| 3 | 3 NTSC3.58 NTSC4.43 | 4 |
| | | Jangara Jar |
| 0.9 Vp-p(H) | 2.0 Vp-p(H) 1.4 Vp-p(H) | 1.8 Vp-p (|
| (5) | 6 | 7 |
| | ماسهمهماره | <u> </u> |
| 9.0 Vp-p(H) | 0.5 Vp-p (H) | PALO.8 VE |
| 7 NTSC3:58 NTSC4:43 | 8 | 8 NTSC3.5 |
| <u></u> | 17-17-17- | 11-11- |
| 0.7 Vp-p(H) | PALO.7 Vp-p (H) SECAM1.2 Vp-p (H) | 0.6 Vp-p |
| 9 | 9 | 9 NTSC3.5 |
| 7 | See See See See See See See See See See | 7 |
| PALO.9 Vp-p (H) | SECAM1.0Vp-p(H) | 1.0 Vp-p 1.2 Vp-p |
| (1) | 0 | (1) |
| 111 | | |
| 3.2 Vp-p(H) | 6.0 Vp-p (H) | 0.8 Vp-p |
| 13 | (1) | (C) |
| Aproproach 1 | 1 | - |
| 1.3 Vp-p(H) | 4.0 Vp-p (6.25MHz) | 3.2 Vp-p |
| (1) | 0 | (18) |
| | | June |
| 3.2 Vp-p(H) | 3.0 Vp-p (H) | 2.6 Vp-p |
| (19 | 20 | 2 |
| 10-10-10- | 1 | موسمام |
| 2.7 Vp-p (H) | 5.0 Vp-p(20.48HMz) | 1.0 Vp-p |
| 23 | 23 | 23 |
| <u> </u> | 11-11-11- | 1 1200 |
| 0.9 Vp-p(H) | 0.9 Vp-p (H) | 2.3 Vp- |
| 25 | 29 | 27 |
| | Johnson Ja | 17-17- |
| 1.4 Vp-p(H) | 0.5 Vp-p (H) | 0.7 Vp- |
| 28 | 29 | 30 |
| | | |
| 0.9 Vp-p(H) | 3.2 Vp-p (H) | 5.5 Vp- |
| L | | |



- D2 BOARD WAVEFORMS



D BOARD IC502 LA7856A



D BOARD * MARK

| Ref. No. | Location | 28 INCH | 32 INCH |
|----------|----------|-------------|-------------|
| C3553 | H - 10 | 0.0027 630V | 0.0033 630V |
| | | | |
| R503 | F-9 | CONDCTOR | 0 |
| R504 | F - 10 | 1M | 470k |
| R538 | F-9 | 470k | 330k |
| R2525 | H - 1 | CONDCTOR | 0 |
| | | | |
| T504 | B - 10 | PMT | |

O:TO BE MOUNT
-: NOT MOUNT

• D BOARD WAVEFORMS

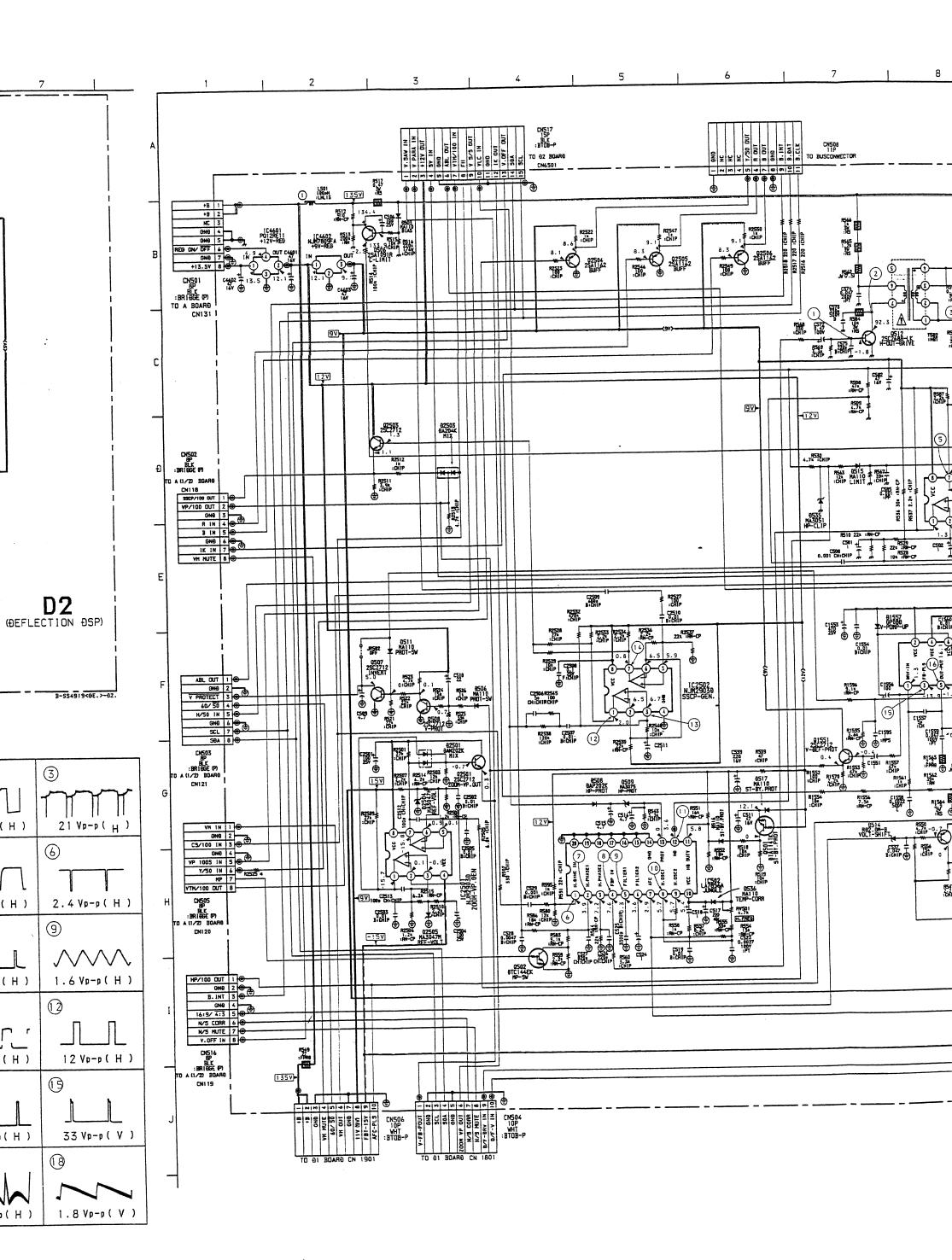
| 1 | 2 | 3 |
|--------------------------|-------------------|--------------------------|
| 5.6 Vp-p (H) | 205 Vp-p (H) | 21 Vp-p (_H) |
| (4) \ \ \ \ \ \ \ \ \ | (S) | 6 |
| 950 Vp-p (H) | 9 Vp-p (H) | 2.4 Vp-p(H) |
| 7 | 8 | 9 |
| | | |
| 3.5 Vp-p(H) | 1 Vp-p (H) | 1.6 Vp-p(H) |
| 100 | $\mid \mathbb{O}$ | (1) |
| 3.9 Vp-p (H) | 7 Vp-p(H) | 12 Vp-p (H) |
| | () | 13 |
| 40 Vp-p(H) | 12 Vp-p(H) | 33 Vp-p (V) |
| | | |
| 60 Vp-p (V) | 265 Vp-p (H) | 1.8 Vp-p(V) |

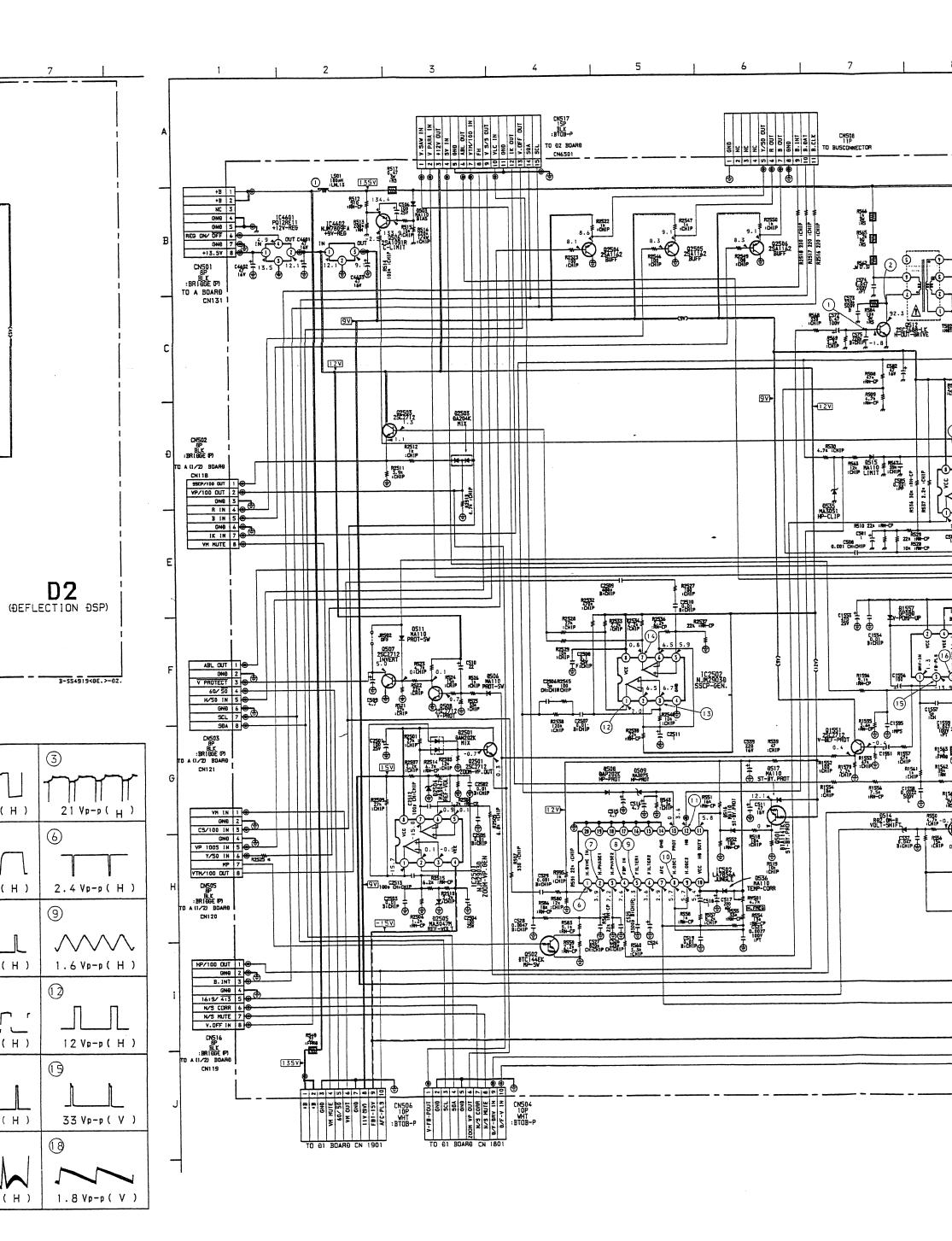
Schematic diagram

← B board

Schematic diagrams

D2 D boards →



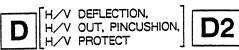


13 12 10 CN508 11P TO BUSCONNECTOR D H/V DEFLECTION, \ T**5**04 1 H/V OUT. PINCUSHION. H/V PROTECT. 1873E - 殿脈 F544 70.6584 重然 · W 7591 RGP 1525 673 75F + 0.33 256V :PP COAT ING EARTH 1357 R509 4.7k 9V)-120 CN514 -0 :TAB TO HY BLOCK DY A 4.7K :CHIF 124 MA110 338 T :CHIP LINIT #:CHIP 0 RS92 4.7k :CHIP HEEN 2 CN525 WHT : BY (LOCK) O TEHIP 17 TO 41 BOARS 174 **=** (18) RGP02-2011-6394 12577 1241 p 18-7-19 Saur-var 18.11 Saur RS78 RS77 ICHIR SCOR 中國 CISS4 BICHIP ₹ がいま RISI7 CN515 VHT CHOCKI 描 IC2502 NJM29030 SSCP-GEN. C1556 R1596 9.1k :RN-CP 8582 470a :CHIP 2000-111 R504 : CHIP - TO PICTURE TUBE (15) **O**." 1357 1 C580 R1543 (1) C1541 (1) R1542 8524 R6P 106 120V-RECT RISSE CHIP TO C BOARD 电影 177 RISS4 SK CHIP FW-15V-RE-VOLT-SHIFT 地路 ₩ D FRA T ***** 18k 1/2W :RC F ₹ 201 C569 0.039 2007 :PT B:애플 那%車

-15V

135V

B-554919<GE.>-0.



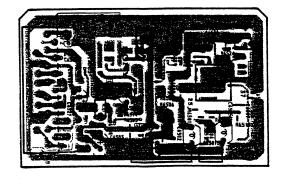
[DEFLECTION DSP]

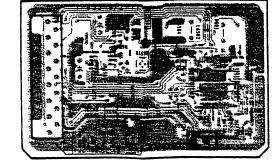
• : Pattern from the side which enables seeing. • : Pattern of the rear side. - D BOARD -

D BOARD

| | 1 | 20500 | | 2505 | |
|--------|--------------|-------|-------|----------|-------|
| IC | | Q2503 | G - 5 | D525 | E-5 |
| | | Q2504 | G – 1 | D526 | E-2 |
| IC502 | G-7 | Q2505 | G – 1 | D527 | D-1 |
| IC507 | F-6 | Q2506 | G – 1 | D528 | E-3 |
| IC1551 | F-2 | Q3550 | B - 4 | D529 | E-5 |
| IC2501 | G-4 | | | D530 | E-4 |
| IC2502 | G-5 | DIC | DE | D531 | E-5 |
| IC4601 | G-7 | | | D535 | F-6 |
| IC4602 | F-7 | D501 | C - 6 | D570 | E-7 |
| | | D502 | E-7 | D571 | E-7 |
| TRANS | SISTOR | D503 | D - 7 | | F-4 |
| | | D504 | G-3 | D1551 | |
| Q501 | F - 7 | D506 | G - 4 | D1557 | F-1 |
| Q502 | G-6 | D508 | F-7 | Q2501 | G-4 |
| Q506 | E-7 | | F - 7 | D2503 | G-5 |
| Q507 | G – 4 | D509 | • | D2504 | È-5 |
| Q508 | F-4 | D511 | G – 4 | D2505 | F-5 |
| Q511 | F-5 | D512 | G – 3 | D3550 | B-4 |
| | | D514 | G - 3 | | - 1 |
| Q512 | B - 7 | D515 | F-6 | D3551 | A-4 |
| Q514 | B - 5 | D516 | F - 7 | D3552 | B - 4 |
| Q555 | G – 3 | D517 | F-7 | | 1 |
| Q1551 | F-1 | | | | ł |
| Q1552 | F - 4 | D522 | C - 4 | | į |
| 02501 | G - 5 | D524 | E – 2 | | - |
| U2501 | G- 5 | | | <u> </u> | |

- D2 BOARD -



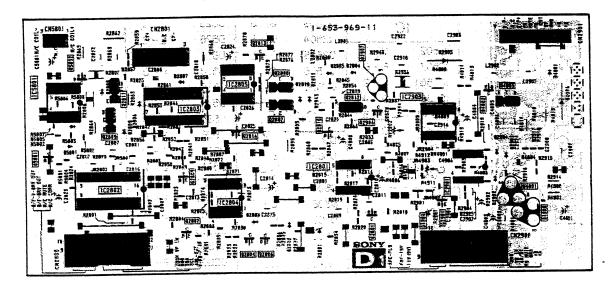


which enables seeing

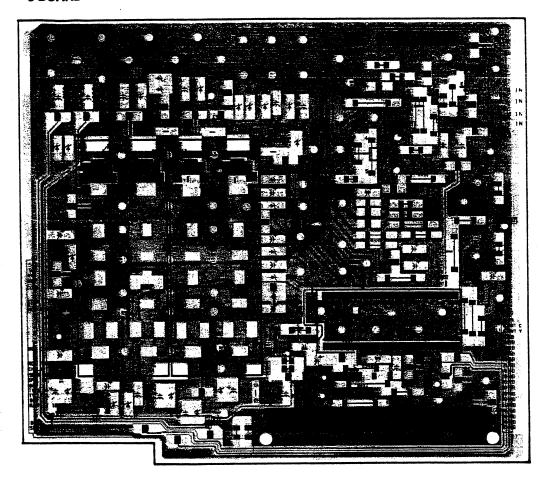
D1 DYNAMIC CONVERGENCE, QUADRA POLE, DF DRIVE, PICTURE ROTATION

AUDIO/VIDEO SW, AUDIO/VIDEO IN/OUT]

- D1 BOARD -



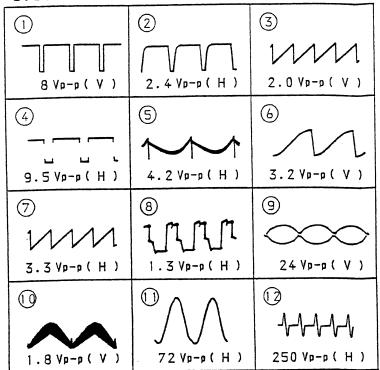
- J BOARD -



Note

- Pattern from the side which enables seeing.
- · Pattern of the rear side

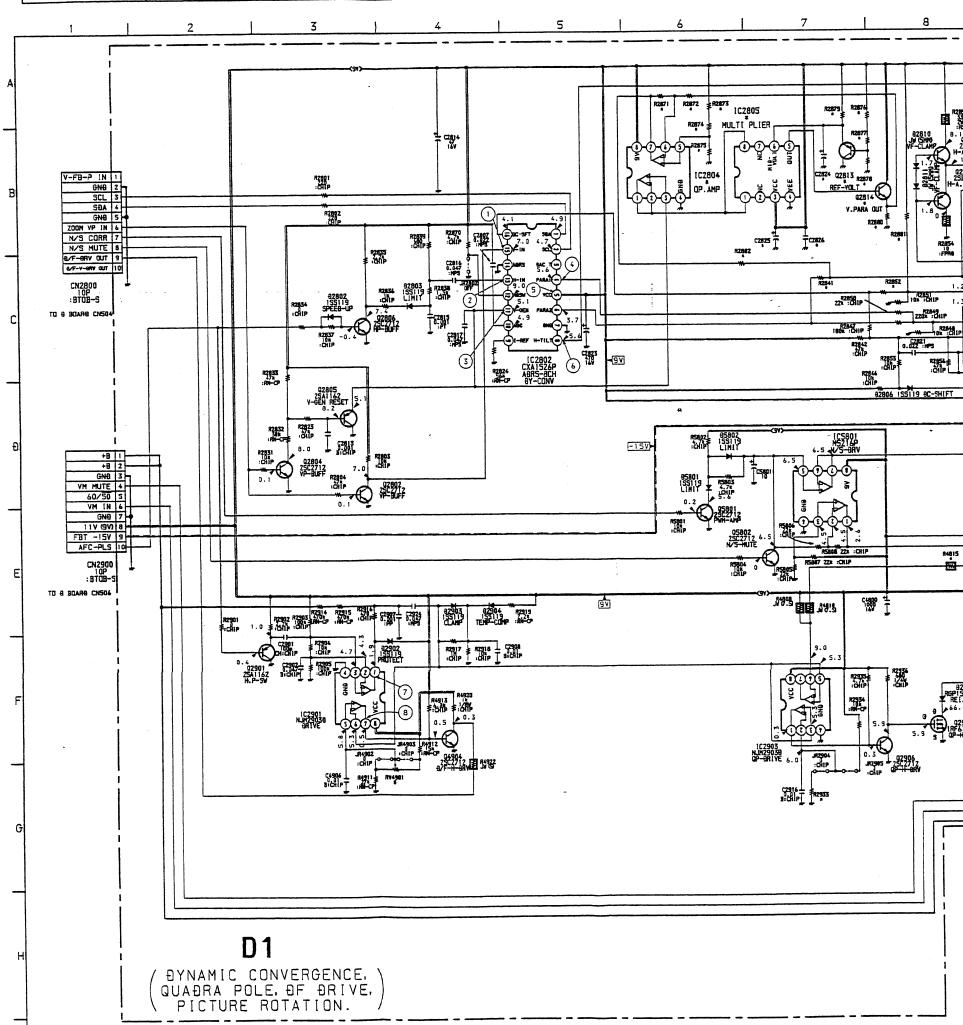
- D1 BOARD WAVEFORMS

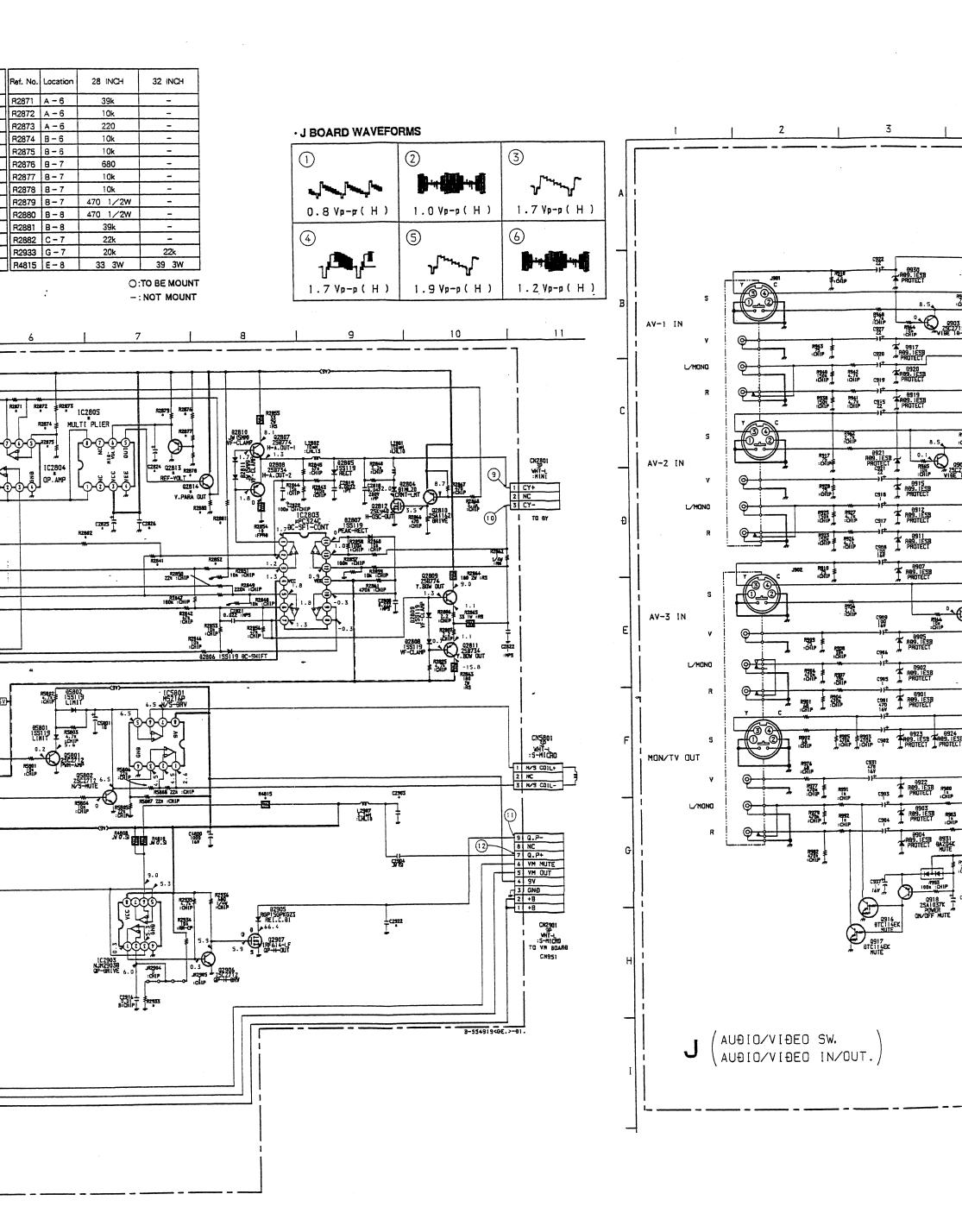


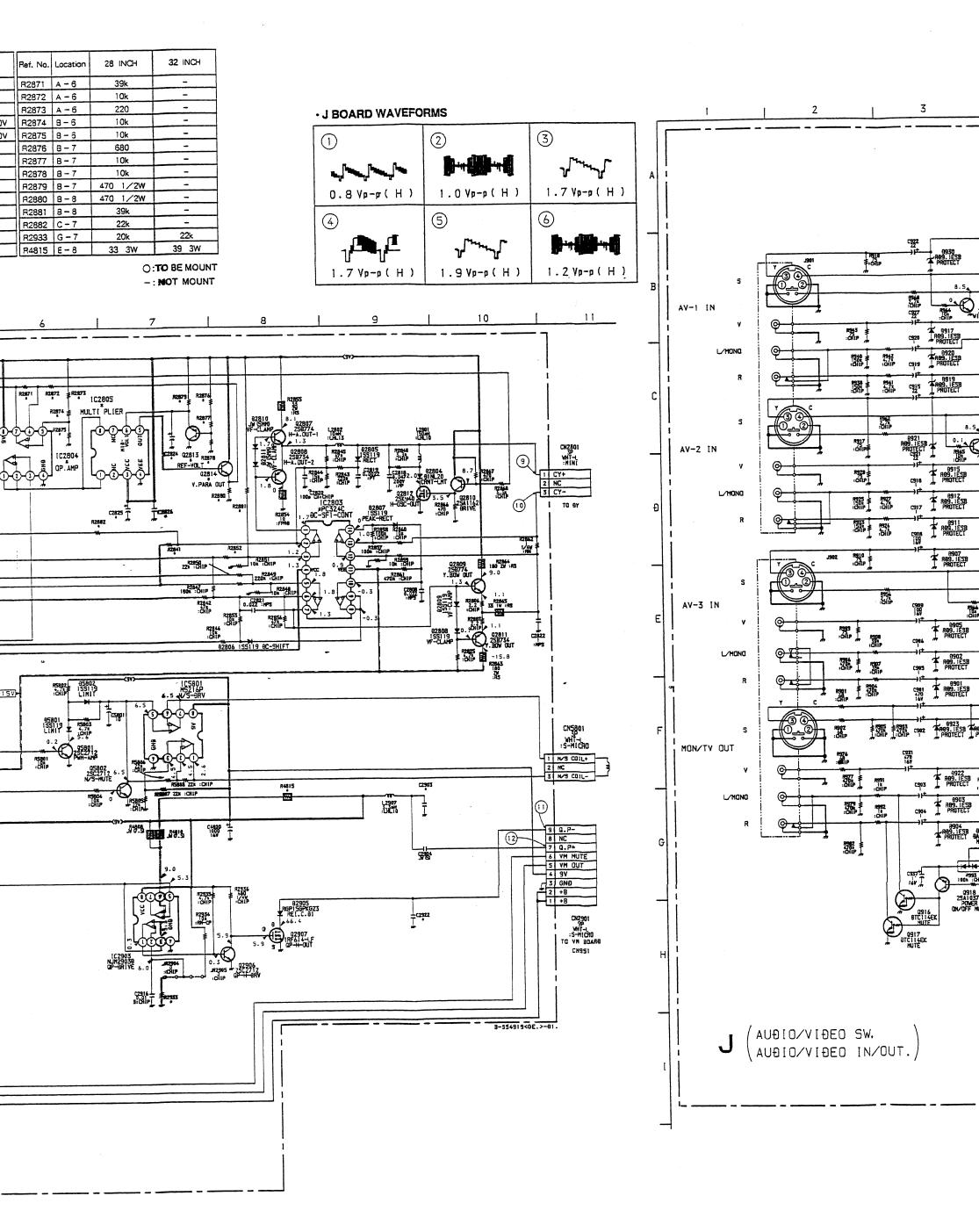
D1 BOARD * MARK

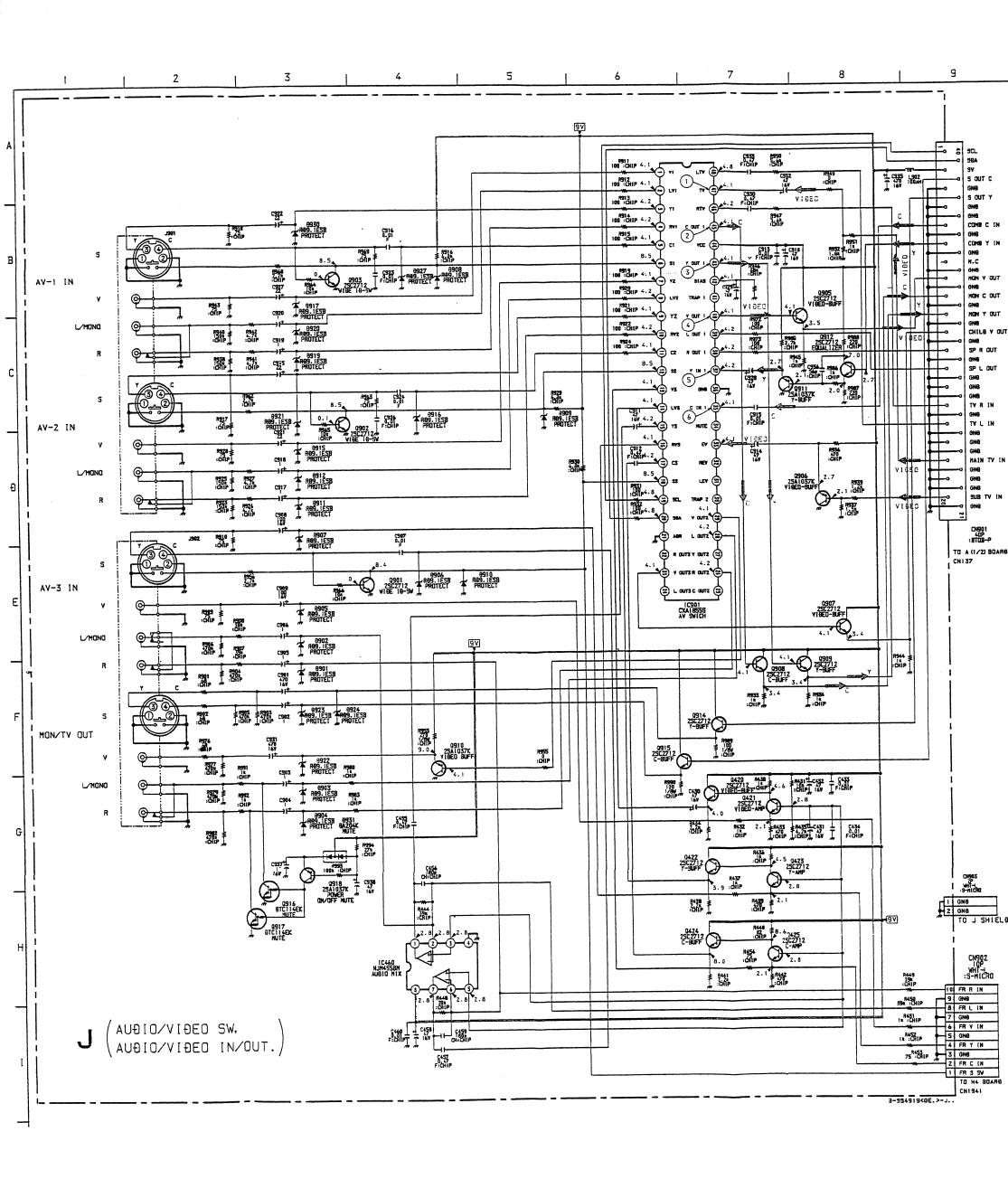
| Ref. No. | Location | 28 INCH | 32 INCH | Ref. No. | Location | 28 INCH | 32 INCH |
|----------|----------|-------------|------------|----------|----------|-------------|---------|
| C2824 | 8-7 | 47 16V | - | R2871 | A - 6 | 39k | - |
| C2825 | B-7 | 47 16V | - | R2872 | A - 6 | 1 0k | - |
| C2826 | 8-7 | 0.01 | - | R2873 | A-6 | 220 | - |
| C2903 | E-9 | 0.033 220V | 0.022 200V | R2874 | 8-6 | 10k | - |
| C2922 | F-9 | 0.0015 630V | 0.001 630V | R2875 | 8-6 | 10k | - |
| | | | | R2876 | B-7 | 680 | - |
| IC2804 | B-6 | uPC358C | - | R2877 | 8-7 | 10k | - |
| IC2805 | B-7 | CA0005AD | - | R2878 | 8-7 | 10k | - |
| | | | | R2879 | B-7 | 470 1/2W | - |
| Q2813 | B-7 | 2SA1162 | - | R2880 | 8-8 | 470 1/2W | - |
| Q2814 | B-8 | 2SC2712 | - | R2881 | 8-8 | 39k | - |
| | | | | R2882 | C-7 | 22k | - |
| R2841 | C-7 | 22k | 47k | R2933 | G-7 | 20k | 22k |
| R2852 | C-8 | 47k | 10k | R4815 | E-8 | 33 3W | 39 3W |

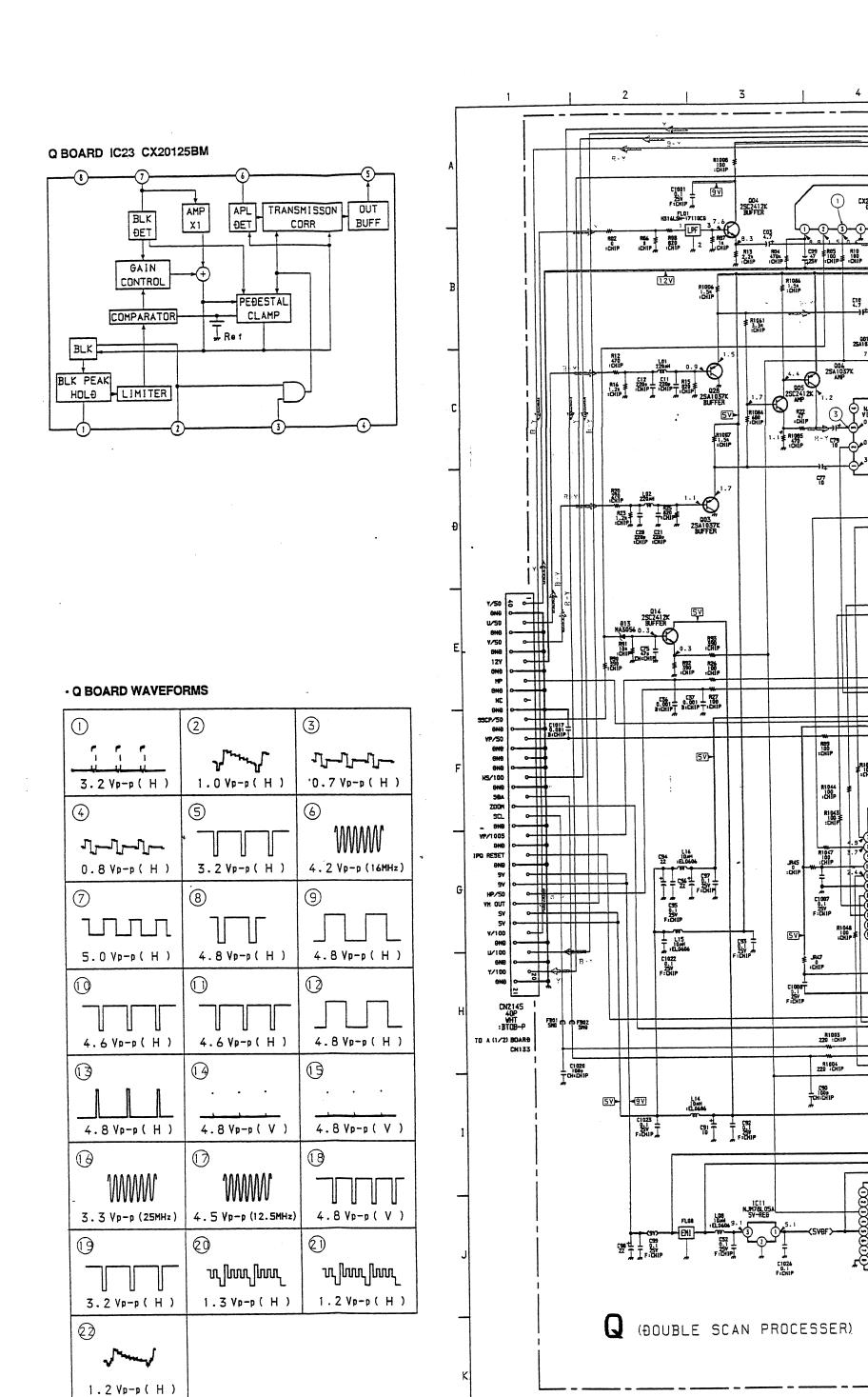
O:TO BE MOUNT
-: NOT MOUNT





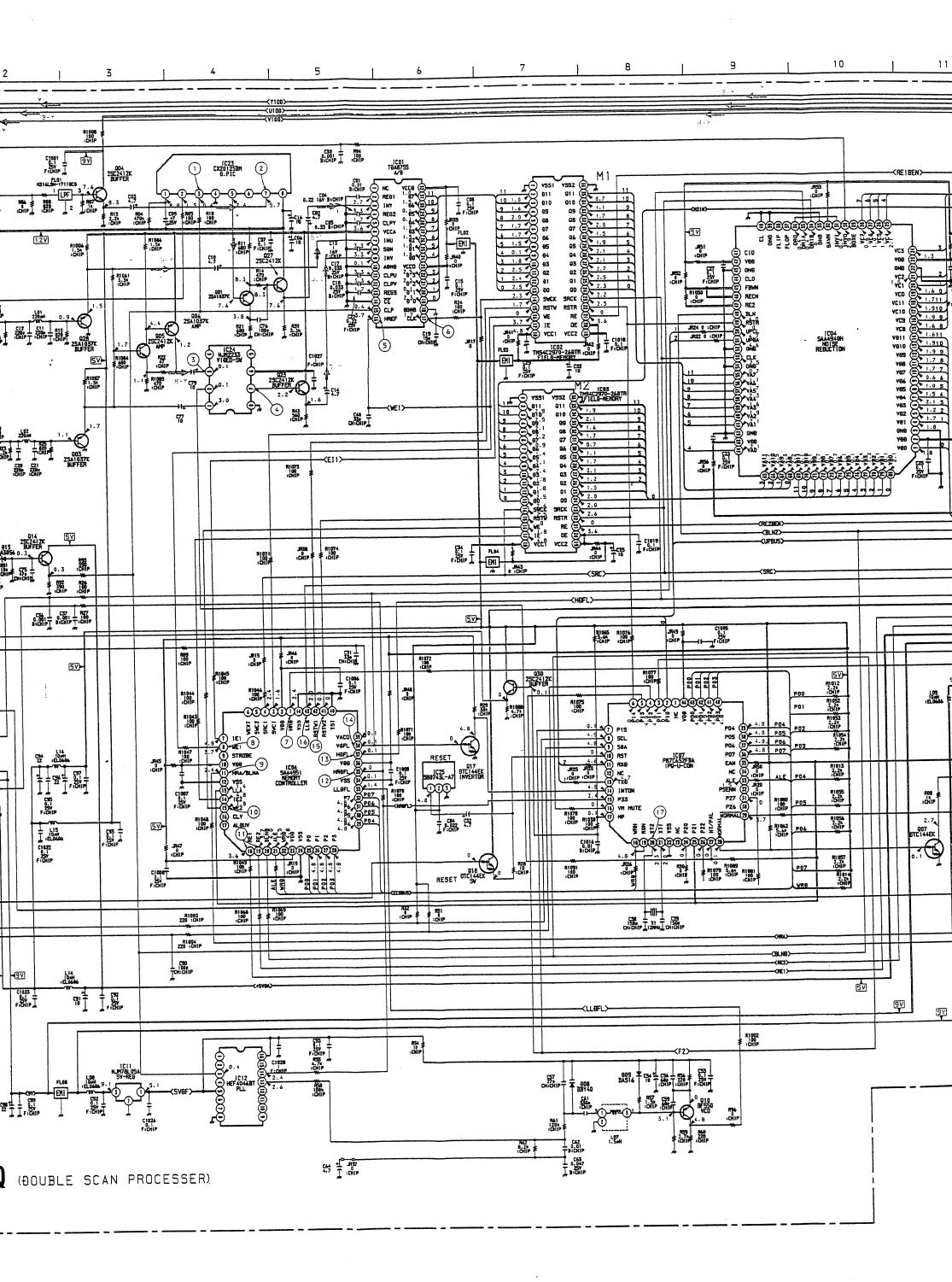


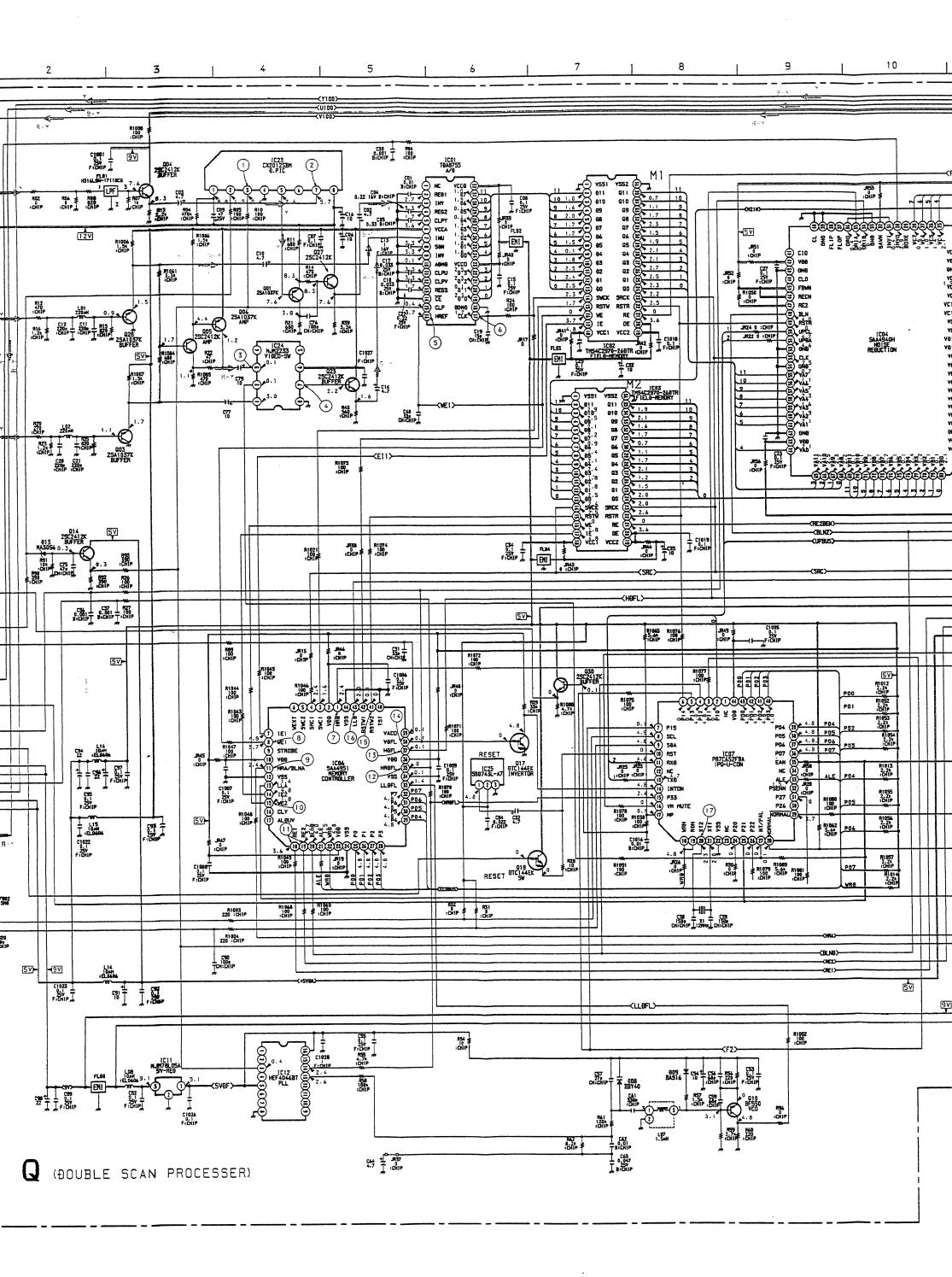


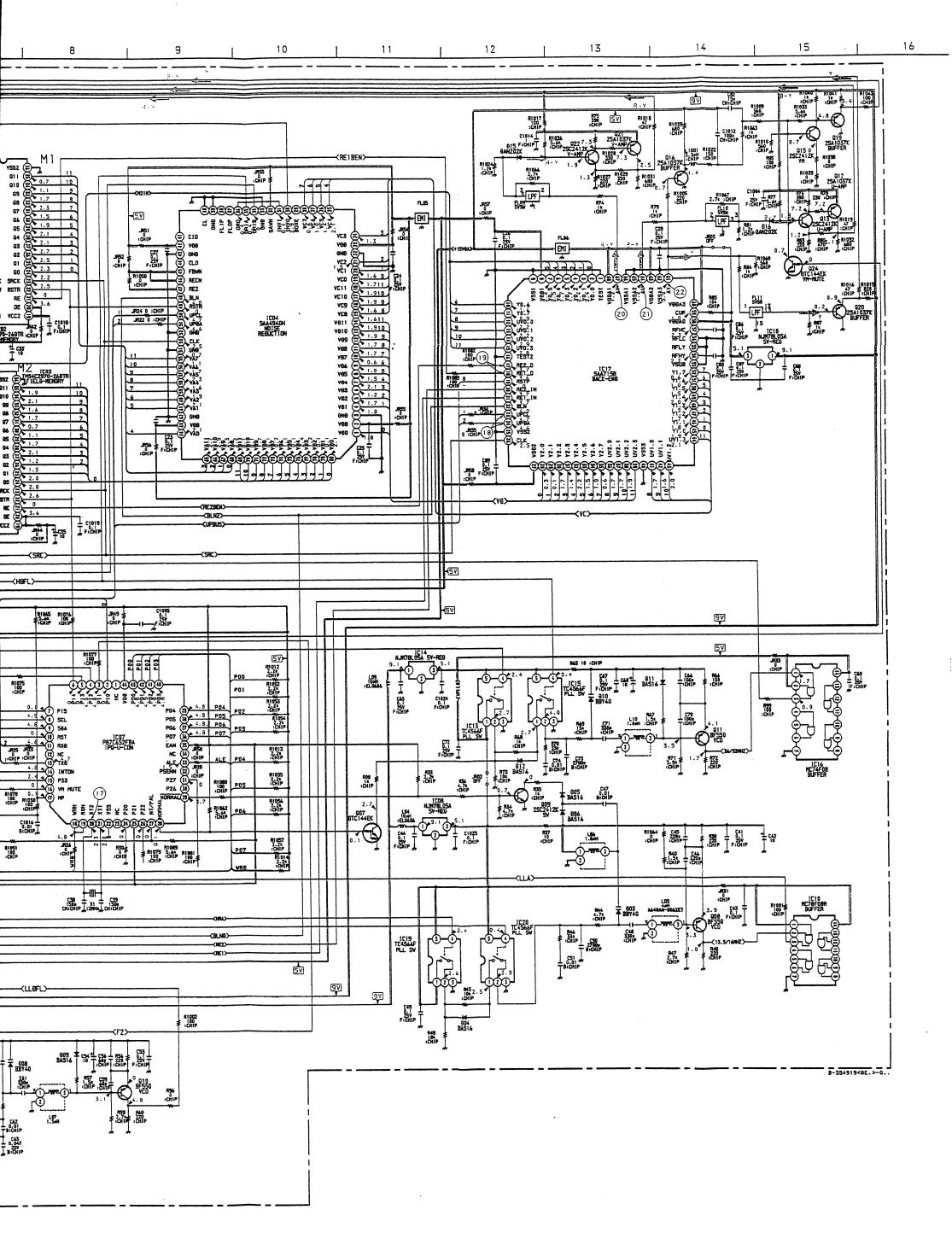


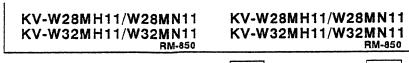
← D1 J boards

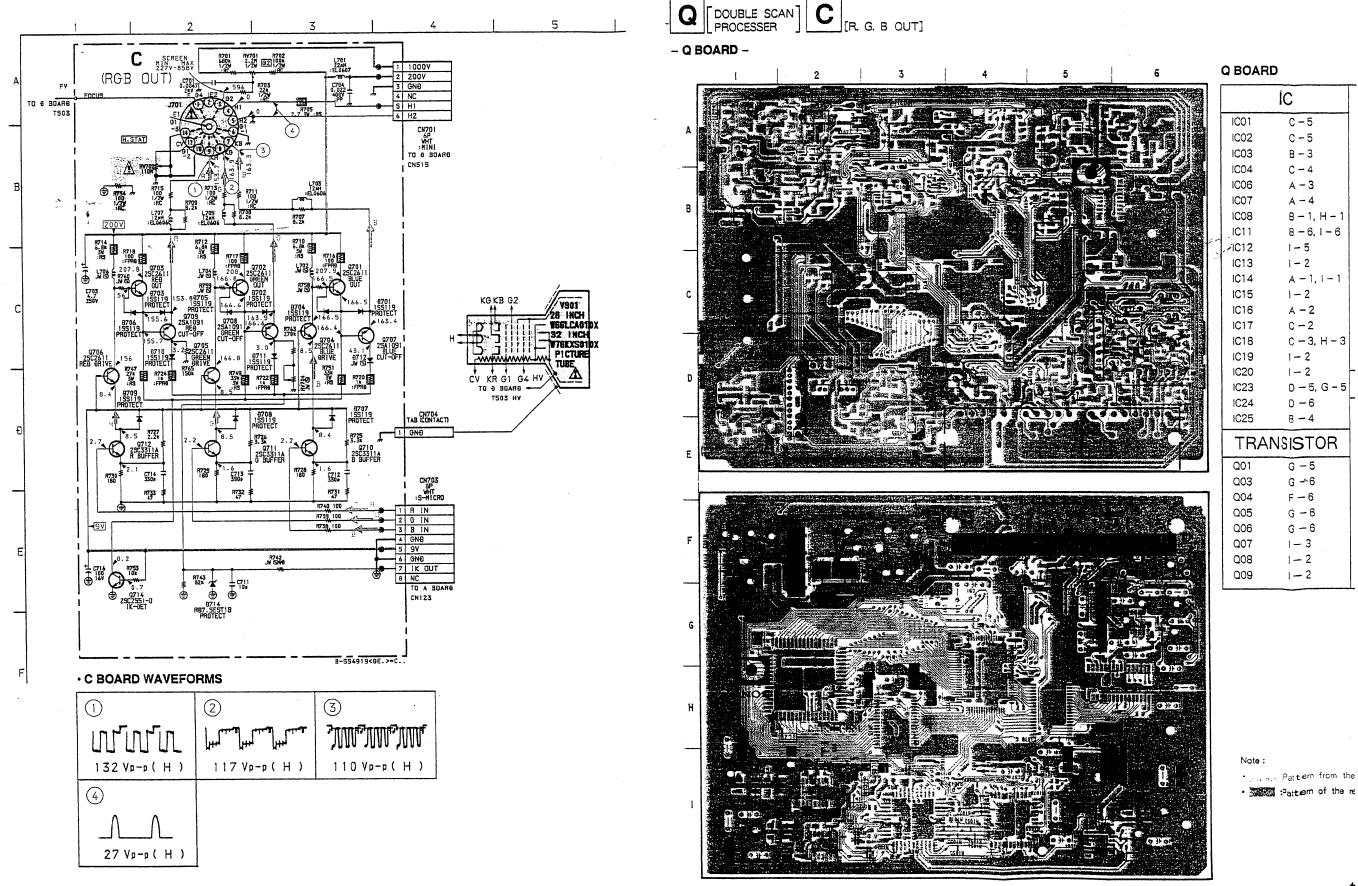
O board -











IC

C-5

C-5

B - 3

C - 4

A - 3

A-4

1 - 5

1 - 2

1 - 2

A-2

C - 2

1 - 2

1 - 2

D-6

B - 4

G-5

G -46

F - 6

G - 6

G - 6

1-3

1 - 2

1 - 2

B - 1, H - 1

B - 6, 1 - 6

A - 1, I - 1

C - 3, H - 3

D - 5, G - 5

V901

28 HICH

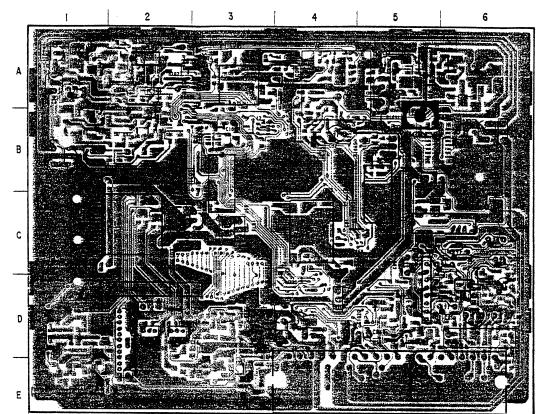
W66E CA010X

32 INCH

P1CTURE

Q [DOUBLE SCAN] C [R. G. B OUT]

- Q BOARD -

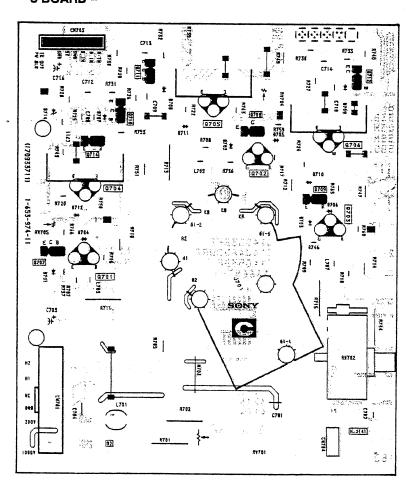


| F | |
|---|--|
| G | |
| Н | |
| ı | |
| | |

Q BOARD

| | IC | Q10 | 1-6 |
|--------------|----------------|-----|-------|
| IC01 | C-5 | Q11 | 1-2 |
| 1001 | C-5 | Q12 | F-3 |
| 1002 | B-3 | Q13 | F-3 |
| 1C03 | C-4 | Q14 | F-5 |
| 1004 | A-3 | Q15 | F-1 |
| 1000 | A - 4 | Q16 | G-1 |
| 1008 | | Q17 | 1-3 |
| IC11 | B-1, H-1 | Q18 | G-5 |
| IC12 | 8-6,1-6 | Q19 | F-1 |
| | 1-5 | 020 | F-3 |
| IC13 | 1-2 | Q21 | F-3 |
| IC14 | A - 1, I - 1 | Q22 | F-3 |
| IC15 | 1-2 | 023 | D-6 |
| IC16 | A - 2 | Q24 | F-1 |
| IC17 | C-2 | 027 | G – 6 |
| IC18 | C-3, H-3 | Q28 | G-6 |
| IC19 IC20 | 1 – 2 1 – 2 | 030 | 1-5 |
| 1C20 | D - 5. G - 5 | וח | ODE |
| 1C23 | D-6 | | |
| 1C24 1C25 | B - 4 | D03 | 1-1 |
| 1020 | | D04 | 1 – 2 |
| TRA | NSISTOR | D05 | 1-2 |
| Q01 | G-5 | D06 | 1-1 |
| 003 | G-5 G-46 | D08 | 1-6 |
| Q04 | F-6 | D09 | 1-5 |
| 205 | G-6 | D10 | 1-2 |
| 006 | G-6 | D11 | 1-1 |
| 207 | 1-3 | D12 | 1-2 |
| 208 | 1-2 | D13 | F-5 |
| 209 | 1-2 | D15 | F-2 |
| | | D16 | F – 2 |

- C BOARD -

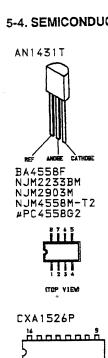


Schematic diagram



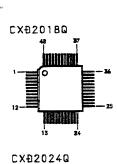


— 86 —

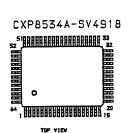




CLOS A15M

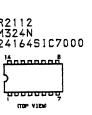


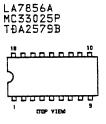
MARKING SIRE VIEV 0

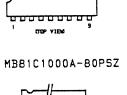


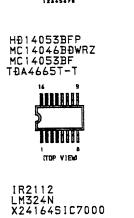














MC74F08M

COP VIEW

MSP3410TE-L

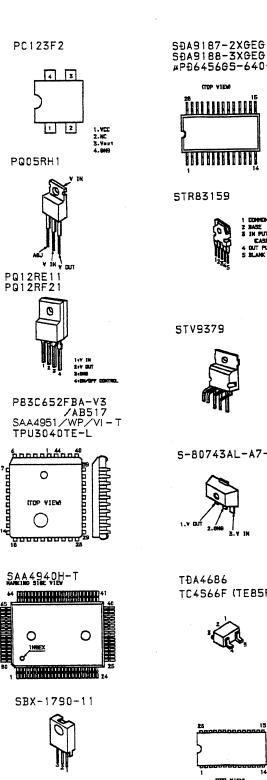
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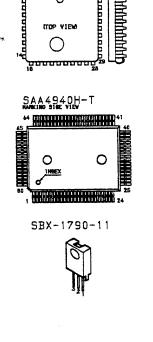
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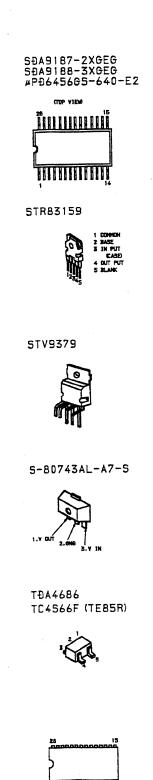
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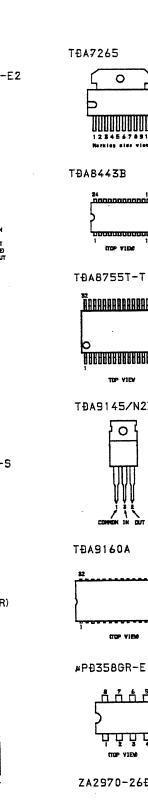
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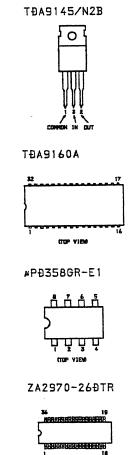
M5216P NJM2903Đ











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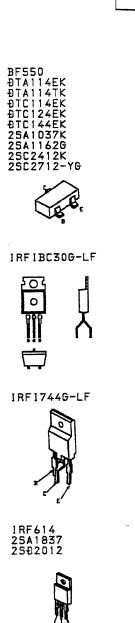
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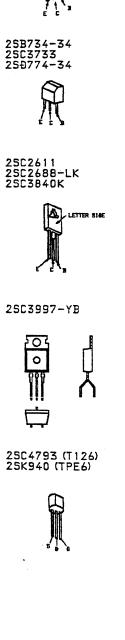
TOP VIEW

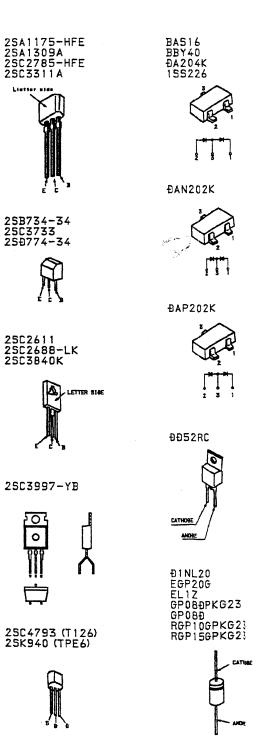
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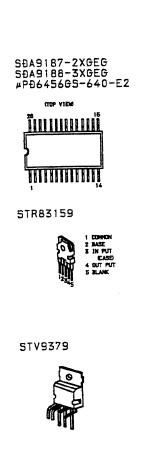


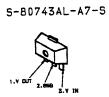


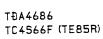






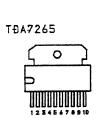






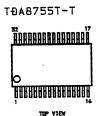




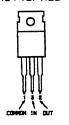


TĐA8443B

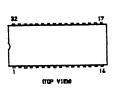




TĐA9145/N2B



A061EAGT



₽P#358GR-E1

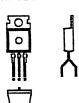


ZA2970-260TR

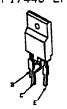


BF550 ĐTA114EK ĐTA114TK ĐTC114EK ĐTC124EK ĐTC144EK 25A1037K 25A1162G

IRFIBC30G-LF



IRF1744G-LF



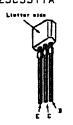
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25A1091 2502551



2SA1175-HFE 2SA1309A 2SC2785-HFE 2SC3311A



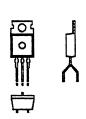
2SB734-34 2SC3733 2SĐ774-34



25C2611 25C2688-LK 25C3840K



25C3997-YB



25C4793 (T126) 25K940 (TPE6)



BAS16 BBY40 ĐA204K 15S226



ĐAN202K



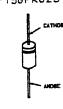
ĐAP202K



ĐĐ52RC



Đ1NL20 EGP20G EL1Z GP08DPKG23 GP08D RGP10GPKG23 RGP15GPKG23

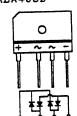


Ð1N2OR ERA38-06 MTZJ-T-77-15 RÐ10ESB3 RÐ3.ESB2 RÐ33ESB1 RÐ33F-B1 RÐ5.1ESB1 RÐ5.1ESB1

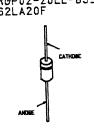




Ð4SB60L RBA402L RBA406B



EGP100 ERB24-060TP1 RGP02-20EL-6394 S2LA20F



FMG-36S-LF024-104



MA110



MA3051L-TX

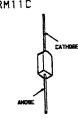


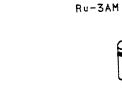
MA3047M-TX MA3056 MA3068M MA3075T





RM11C





TF5415 (£102) SEL1222R-C



SECTION 6 EXPLODED VIEWS

- NOTE:

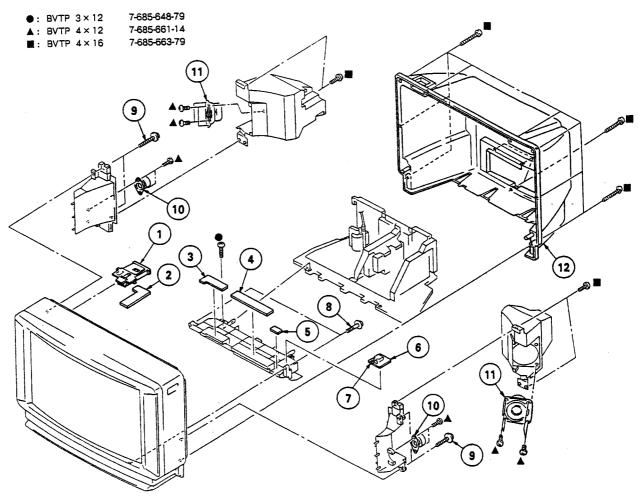
 Items with on part number and on description are not stocked because they are seldom required for routine service.

 The construction parts of an assembled part are indicated with a collation number in the remark column.

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

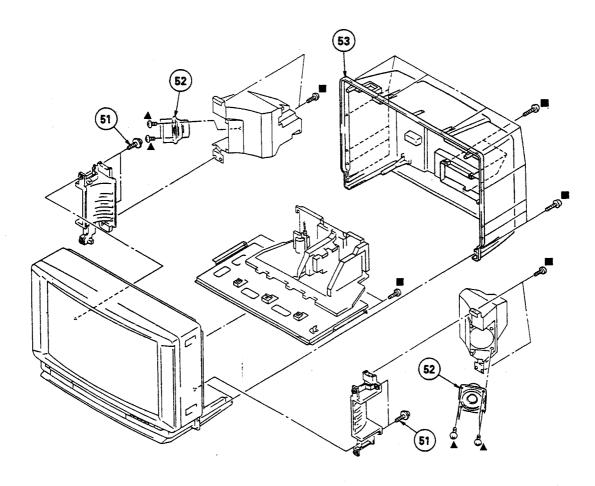
6-1. REAR COVER AND SPEAKER (KV-W28MH11 / W28MN11)



| REF.NO. PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|--|--------------------|---|--------------|--|---|--------|
| 1 X-4032-292-1 2 *A-1372-075-A 3 *A-1372-068-A 4 *A-1372-069-A 5 *A-1372-067-A | H2 BOARD, COMPLETE | (KV-W28MN11/MH11) (KV-W28MN11/MH11) (KV-W28MN11/MH11) (KV-W28MN11/MH11) (KV-W28MN11/MH11) | 8 9 10 | 4-319-520-11 4-384-096-01 1-504-121-51 | F2 BOARD, COMPLETE SUITER PUSH CAC POWERS SCREW, SPECIAL (+PW4X30) SCREW (4X16), TAPPING, +P SPEAKER (5CM) SPEAKER (12CM) COVER, REAR | |

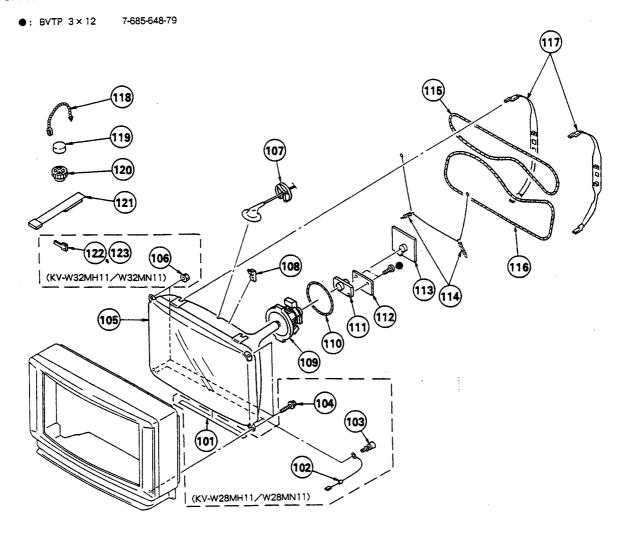
6-2. REAR COVER AND SPEAKER (KV-W32MH11 / W32MN11)

▲: BVTP 4 × 12 7-685-661-14 **■**: BVTP 4 × 16 7-685-663-79



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|----------------|----------|--|--------|
| 51 52 53 | | SCREW (4X16), TAPPING, +P SPEAKER (12CM) COVER, REAR | |

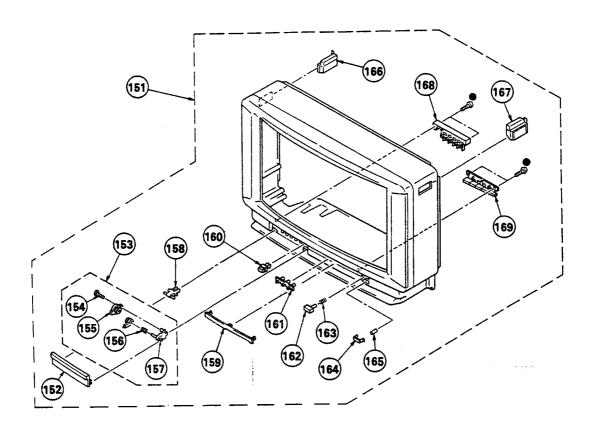
6-3. PICTURE TUBE



| REF. NO. PART NO. | DESCRIPTION | REMARK | REF. NO | . PART NO. | DESCRIPTION | REMARK |
|--|--|---|--------------------------|---|---|---|
| 102 1-900-071-31 103 4-386-618-01 104 4-390-505-01 | CLOTH, PROTECTION CONNECTOR ASSY RIVET, T TYPE SCREW (7), TAPPING PICTURE TUBE 28CLI | (KV-W28MN11/MH11) | 116 | 1-409-953-11 1-409-952-11 | SPRING, TENSION COIL, DEMAGNETIZATION COIL, DEMAGNETIZATION COIL, DEMAGNETIZATION COIL, DEMAGNETIZATION | (KV-W32MLLL/MHIL) |
| tas. & 8=735-023-05 | PICTURE TUBE 32CU1 NUT, SPECIAL, CRT HOLDER, HV CABLE | (KV-W28MN11/ME11) (W76KXSO10X) (KV-W32MN11/ME11) (KV-W32MN11/ME11) | 117 118 119 120 | *4-045-294-01 4-040-324-01 4-308-870-00 1-452-032-00 1-452-094-00 | CLIP, LEAD WIRE | (KV-W32M 11/MH11) (KV-W28M 11/MH11) SK: 15MMø |
| 108 3-704-495-01 109 <u>A</u> 8-451-449-11 <u>A</u> 8-451-460-11 | SPACER, DY DY Y28CFC2 (MTY) BY Y32CFC2N | (KV-W28MN11/MBE1) (KV-W32MN11/MB11) | 121 | X-4030-584-1 X-4306-312-0 | | (KV-W28IN 11/MH11) Ergence |
| 110 1-452-724-11 111 A .1-452-616-11 | COIL, NA ROTATION NECK ASSY, PICTURE | TUBE (NA323) | 122 | 4-034-272-01 | PLATE, CORRECTION, T | (KV-W32N 11/MH11) V(KV-W32N 11/MH11) |
| 112 *A-1342-258-A 113 *A-1331-391-A | VM BOARD, COMPLETE C BOARD, COMPLETE C BOARD, COMPLETE | (KV-W28MN11/MH11) | 123 | 4-034-272-11 | PLATE, CORRECTION, T | LV(KV-W32N 11/NH11) |

6-4. CABINET (WITH BEZEL) (KV-W28MH11 / W28MN11)

●: BVTP 3 × 12 7-685-648-79

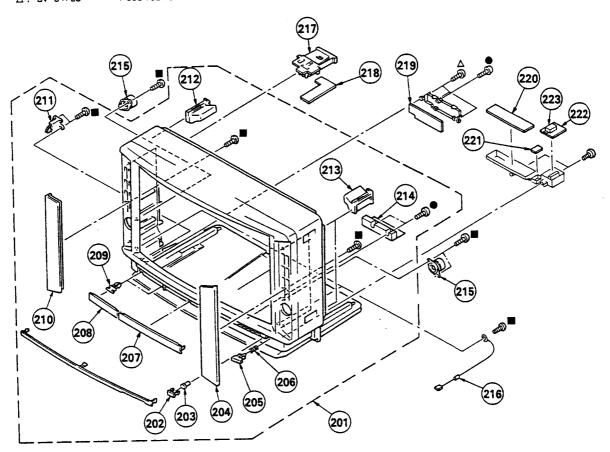


| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION |
|--------------------------|--|---|---------|--------------------------|--|---|
| 151 | X-4032-291-1 | BEZNET ASSY | 152-169 | 161 | 4-042-189-11 4-042-187-21 | GUIDE, LIGHT BUTTON, POWER |
| 152 153 154 155 | 4-042-193-41 X-4031-244-1 4-033-184-01 4-036-880-11 | DOOR DAMPER ASSY SCREW, SPECIAL DAMPER | 154-157 | 162 163 164 165 | 4-042-593-01 | SPRING, COMPRESSION WINDOW, ORNAMENTAL GUIDE (R), LIGHT |
| 156 157 158 159 | 4-041-016-01 4-041-017-01 3-703-035-12 4-042-478-11 4-042-192-01 | SPRING SHAFT (MAIN), DAMPER DOOR SHAFT, LID PANEL CONTROL CATCHER, PUSH | | 166 167 168 169 | 4-037-968-03 4-037-969-03 4-042-186-01 4-042-185-01 | HOLDER (L) HOLDER (R) BUTTON, SUB MENU BUTTON, MAIN MENU |

REMARK

6-5. CABINET (WITH BEZEL) (KV-W32MH11 / W32MN11)

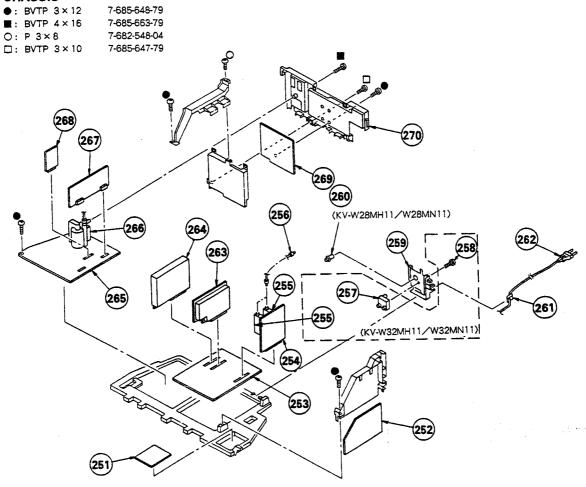
●: BVTP 3 × 12 7-685-648-79 ■: BVTP 4 × 16 7-685-663-79 Δ: BV 3 × 25 7-685-152-19



The components identified by shading and mark \(\Delta \) are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|--|--|---------|---|--|--|--|
| 201 202 203 204 205 206 207 | X-4032-297-1 4-036-981-01 4-042-927-01 X-4032-296-1 4-036-976-31 4-042-593-01 4-036-998-21 | BEZNET ASSY FILTER, RAY CATCHER GUIDE, LIGHT GRILLE (R) ASSY, SPEAKER BUTTOM, POWER SPRING, COMPRESSION GRILLE, CENTER SP | 202-214 | 211 212 213 214 215 216 217 | 4-036-990-01 4-037-025-11 4-037-030-11 4-047-157-01 1-504-121-51 1-900-138-08 X-4032-292-1 | DAMPER HOLDER (L) HOLDER (R) SUPPORTER SPEAKER (5CM) CONNECTOR ASSY BRACKET ASSY, H5 H4 BOARD, COMPLETE | (KV-W32MV 11/MH11) |
| 207 208 209 210 | X-4032-294-1 3-703-035-12 X-4032-295-1 | DOOR ASSY SHAFT, LID GRILLE (L) ASSY, SPEAKER | | 219 | *A-1372-073-A *A-1372-070-A *A-1372-071-A | HI BOARD COMPLETE | (KV-W32MN1/ MH11) (KV-W32MN1/ MH11) |
| 2.0 | | | | 0000 | *A-1372-072-A *A-1241-173-A A-1-571-433-11 | TO DOLLD COMPLETE | (KV-W32MN1/MH11) |

6-6. CHASSIS



The components identified by shading and mark ∆ are critical for safety. Repiace only with part number specified.

| REF. N | O. PART NO. | DESCRIPTION | REMARK | REF. NO | . PART NO. | DESCRIPTION | REMARK |
|---|---|--|--|--------------------------|--|--|-------------------|
| 251 252 253 254 255 256 257 | *A-1380-480-A *A-1380-478-A *A-1241-174-A *A-1297-418-A *A-1297-417-A *A-1297-419-A *A-1297-419-A *A-1297-419-A *A-1297-419-A *A-1297-419-A *A-1297-419-A | K BOARD, COMPLETE (KV-I F1 BOARD, COMPLETE A BOARD, COMPLETE A2 BOARD, COMPLETE (KV-I A2 BOARD, COMPLETE (KV-I TUNER, ET BTP-RG421 CABLE, P-P (CABLE, P-P) | W32MN11/MH11) | FA | ▲1-696-401-11 *A-1135-807-A *A-1275-126-A `*A-1346-262-A | CORD, POWER (6.0A/ B BOARD, COMPLETE Q BOARD, COMPLETE D BOARD, COMPLETE D BOARD, COMPLETE | (KV-W28MN11/MH11) |
| 258 259 260 261 | 4-379-611-01 4-046-739-11 4-046-739-11 1-563-204-11 4-389-778-01 | BRACKET, SPLITTER (BRACKET, SPLITTER (SOCKET, ANTENNA (PAL/SE | KV-W32MN11/MB11) KV-W28MN11/MB11) KV-W32MN11/MB11) CAM) KV-W28MN11/MB11) | 267 268 269 270 | *A-1341-842-A *A-1341-850-A *A-1346-265-A *A-1388-176-A 4-046-735-01 | D1 BOARD, COMPLET D2 BOARD, COMPLET J BOARD, COMPLET | E |

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark \(\Delta\) are critical for safety. Replace only with part number specified.

- Items marked "*" are not stocked since they are seidom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms.
 F: nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS • MF: μF, PF: μμF COILS • MMH: mH, UH: μH

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
 Should replacement be required, replace only with the value originally used.

| REF. NO. PART NO. | DESCRIPTION | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | REMARK |
|--|---|---------------------------------|---------------------------------|---|---|---|--------------------------------|---|
| *A-1135-807-A 3-741-396-01 | B BOARD, COMPLETE *********************************** | | | C1347 C1348 C1349 C1350 C1351 | 1-126-933-11 1-164-232-11 1-164-232-11 1-164-232-11 1-163-243-11 | ELECT 100MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF | 207 107 107 107 57 | 16V 50V 50V 50V 50V |
| C1301 1-164-005-11 C1302 1-164-005-11 C1303 1-164-005-11 C1304 1-163-038-91 | CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 10% | 25V 25V 25V | C1352 C1353 C1354 C1355 | 1-124-126-00 1-164-232-11 1-163-237-11 1-163-097-00 | ELECT 47MF CERANIC CHIP 0.01MF CERANIC CHIP 27PF CERANIC CHIP 15PF ELECT 47MF | 20% 10% 5% 5% 20% | 16 V 50 V 50 V 50 V 16 V |
| C1305 1-164-004-11 C1306 1-163-038-91 C1307 1-164-004-11 C1308 1-164-505-11 C1309 1-164-004-11 | CERANIC CHIP 0.1MF CERANIC CHIP 2.2MF | 10% 10% | 25V 16V 25V | C1361 C1362 C1363 | 1-164-346-11 1-163-131-00 1-163-001-11 | CERAMIC CHIP 1990PF CERAMIC CHIP 220PF | 5% 5% 10% | 50 V 25 V 16 V 50 V 50 V |
| C1310 1-163-097-00 C1311 1-163-097-00 C1312 1-163-809-11 C1313 1-163-017-00 C1314 1-163-809-11 | CERAMIC CHIP 15PF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.1MF | 5% 10% 10% 10% | | C1364 C1401 C1402 C1403 C1404 | 1-163-251-11 1-126-375-11 1-164-004-11 1-164-004-11 1-164-004-11 | CERAMIC CHIP 100PF ELECT 100MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 5% 20% 10% 10% 10% | 50 V 16 V 25 V 25 V 25 V |
| C1317 1-163-009-11 C1318 1-163-009-11 C1319 1-104-664-11 C1320 1-163-038-91 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF ELECT 47MF CERAMIC CHIP 0.1MF CERAMIC CHIP 33PE | 10% 10% 20% | 50V 50V 25V 25V 50V | i | | | | |
| C1322 1-163-251-11 C1323 1-164-232-11 C1324 1-163-085-00 C1325 1-164-232-11 | CERAMIC CHIP 100PF CERAMIC CHIP 0.01MF CERAMIC CHIP 2PF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 47PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 5% 10% 0.25PF 10% | 50V 50V 50V 50V | C1411 C1412 C1413 C1414 C1415 | 1-164-505-11 1-164-505-11 1-163-239-11 1-163-239-11 1-163-239-11 | CERAMIC CHIP 2.2MF CERAMIC CHIP 2.2MF CERAMIC CHIP 33PF CERAMIC CHIP 33PF CERAMIC CHIP 33PF | 5% 5% 5% | 16 V 16 V 50 V 50 V 50 V |
| C1326 1-163-121-0C C1327 1-163-243-11 C1328 1-163-243-1 C1329 1-126-933-1 C1330 1-163-038-9 | CERANIC CHIP 47PF CERANIC CHIP 47PF ELECT 100MF CERANIC CHIP 0.1MF | 5% 5% 20% | 50V 50V 16V 25V | C1417 C1418 C1419 C1420 C1421 | 1-163-009-11 1-164-005-11 1-164-005-11 1-163-245-11 1-164-004-11 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.47MF CERAMIC CHIP 0.47MF CERAMIC CHIP 56PF CERAMIC CHIP 0.1MF | 10% 5% 10% | 50V 25V 25V 50V 25V |
| C1331 1-163-009-1 C1332 1-164-232-1 C1333 1-164-232-1 C1334 1-126-375-1 C1335 1-164-232-1 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF ELECT 100MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF | 10% 10% 20% 10% | 50V 50V 16V 50V | C1424 C1425 C1426 | 1-163-251-11 1-164-005-11 1-163-251-11 | CERAMIC CHIP 100PF CERAMIC CHIP 0.47MF CERAMIC CHIP 100PF | 5% 5% | 50Y 25Y 50Y |
| C1337 1-164-232-1 C1338 1-163-097-0 C1339 1-164-005-1 C1340 1-163-038-9 | 1 CERAMIC CHIP 0.01MF 10 CERAMIC CHIP 15PF 11 CERAMIC CHIP 0.47MF 11 CERAMIC CHIP 0.1MF | 10% 5% | 50V 50V 25V 25V | C1431 C1432 C1433 C1434 C1434 | 1 1-163-235-1 2 1-163-235-1 3 1-163-243-1 4 1-163-038-9 5 1-126-375-1 | 1 CERAMIC CHIP 22PF 1 CEBAMIC CHIP 22PF 1 CEBAMIC CHIP 47PF 1 CEBAMIC CHIP 0.1MF 1 ELECT 100MF | 5% 5% 5% 20% | 50V 50V 50V 25V 16V |
| C1341 1-164-232-1 C1342 1-163-038-9 C1343 1-164-232-1 C1344 1-164-232-1 C1345 1-126-966-1 C1346 1-164-232-1 | CERAMIC CHIP 0.0MF CERAMIC CHIP 0.01MF | 10% 10% 10% 20% 10% | 25V 50V 50V 16V 50V | C1436 C1437 C1437 C1437 C1444 | 6 1-126-375-1 7 1-163-038-9 8 1-126-375-1 9 1-126-933-1 0 1-163-038-9 | 1 ELECT 100MF 1 CERAMIC CHIP 0.1MF 1 ELECT 100MF 1 ELECT 100MF 1 CERAMIC CHIP 0.1MF | 20% 20% 20% | 16V 25V 16V 16V 25V |



| _ | J | | | | | | |
|---|---|---|---|---|---------------------------------|---|--------------------------------------|
| | | PART NO. | | | | REF.NO. PART NO. DESCRIPTION | REMARK |
| | C1441 C1442 C1443 C1444 C1445 | 1-163-038-91 1-164-004-11 1-164-005-11 1-164-004-11 1-164-005-11 | CERAMIC CHIP 0.1 CERAMIC CHIP 0.2 CERAMIC CHIP 0.2 CERAMIC CBIP 0.3 CERAMIC CHIP 0.4 | 1MF 1MF 10% 47MF 1MF 10% 47MF | 25V 25V 25V 25V 25V | D1307 8-719-404-46 DIODE MA110 D1309 8-719-404-46 DIODE MA110 D1401 8-719-401-41 DIODE MA3051L-TX D1501 8-719-401-41 DIODE MA3051L-TX | |
| | C1446 C1447 C1448 C1449 C1450 | 1-164-004-11 1-163-009-11 1-164-346-11 1-163-038-91 | CERAMIC CHIP O. CERAMIC CHIP 1M CERAMIC CHIP 1M CERAMIC CHIP O. CERAMIC CHIP O. | 1NF 10% 001NF 10% F 1NF 1NF | 25V 50V 16V 25V 25V | D1502 8-719-106-17 DIODE RD6.8M-B2 <filter></filter> | |
| | C1451 C1452 C1453 C1454 C1457 | 1-126-233-11 1-163-038-91 1-163-038-91 1-163-121-00 1-164-005-11 | ELECT 22 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 15 CERAMIC CHIP 0. | MF 20% 1MF 1MF 1MF 50PF 5% 47MF | 50V 25V 25V 50V 25V | FL1301 1-236-164-11 | ONENT |
| | C1458 C1459 C1460 C1461 C1462 | 1-164-005-11 1-163-009-11 1-163-009-11 1-163-038-91 1-163-129-00 | CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP O. CERAMIC CHIP 33 | 47MF 001MF 10% 001MF 10% 1MF 30PF 5% | 25V 50V 50V 25V 50V | FL1402 1-236-071-41 ENCAPSULATED COMP FL1403 1-236-071-41 ENCAPSULATED COMP FL1404 1-236-071-41 ENCAPSULATED COMP FL1406 1-236-071-41 ENCAPSULATED COMP | UNENT ONENT ONENT ONENT |
| | C1463 C1464 C1465 C1466 C1468 | 1-163-129-00 1-164-005-11 1-163-038-91 1-163-038-91 1-163-038-91 | CERAMIC CHIP 33 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0. | 30PF 5% .47MF .1MF .1MF .1MF | 50V 25V 25V 25V 25V | FL1407 1-236-071-41 ENCAPSULATED COMP | ONENT |
| | C1469 C1470 C1471 C1472 C1473 | 1-163-097-00 1-163-097-00 1-163-017-00 1-163-037-11 1-163-038-91 | CERAMIC CHIP O. CERAMIC CHIP 15 CERAMIC CHIP 15 CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 0. CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 10 CERAMIC CHIP 56 ELECT 11 CERAMIC CHIP 16 CERAMIC CHIP 16 CERAMIC CHIP 16 CERAMIC CHIP 17 | 5PF 5% 5PF 5% .0047MF 10% .022MF 10% .1MF | 50V 50V 50V 25V 25V | IC1301 8-759-701-58 IC NJM78M08FA IC1302 8-759-189-90 IC TDA9145/N2B IC1303 8-759-288-85 IC TDA4665T-T IC1304 8-752-352-21 IC CXD2024Q IC1305 8-759-289-29 IC UPD6456GS-640- | |
| | C1474 C1475 C1476 C1477 C1478 | 1-164-346-11 1-163-017-00 1-124-903-11 1-163-135-00 1-126-375-11 | CERAMIC CHIP 1) CERAMIC CHIP 0. ELECT 1) CERAMIC CHIP 50 ELECT 10 | MF .0047MF 10% MF 20% 60PF 5% 00MF 20% | 16V 50V 50V 50V 16V | IC1401 8-759-183-36 IC TDA8443B IC1404 8-759-192-90 IC SDA9188-3XGEG IC1405 8-759-248-15 IC SDA9187-2XGEG IC1406 8-759-288-85 IC TDA4665T-T IC1407 8-759-183-35 IC TDA9160A | |
| | C1480 C1501 C1502 | 1-104-664-11 1-164-004-11 1-164-005-11 | CERAMIC CHIP 1: ELECT 4' CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 4' | 7MF 20% 1.1MF 10% 1.47MF | 25V 25V 25V | IC1408 8-759-701-58 IC NJM78M08FA IC1501 8-759-181-19 IC TDA2579B <coil></coil> | |
| | 01303 | 1 105 155 00 | FILM 0 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 0 | | | L1302 1-408-406-00 INDUCTOR 5 L1303 1-408-401-00 INDUCTOR 2 L1304 1-408-405-00 INDUCTOR 4 L1305 1-408-405-00 INDUCTOR 4 L1306 1-408-405-00 INDUCTOR 4 | .60H .20H .7UH .7UH .7UH |
| | C1514 C1515 C1516 C1517 | 1-164-004-11 1-126-163-11 1-126-233-11 1-126-387-11 | CERAMIC CHIP OF ELECT 4 ELECT 2 ELECT 2 | 0.1MF 10% 1.7MF 20% 22MF 20% 2.2MF 20% | 25V 50V 50V 50V | 1 21101 1 100 110 00 1111111 | 3UH 6UH 6UH |
| | C1519 | 1-126-375-11 | CERAMIC CHIP I ELECT CERAMIC CHIP C | 100MF 20% | 50V 16V 25V | Q1301 8-729-216-22 TRANSISTOR 2SA11 | 62-G 62-G |
| | | | INNECTOR> | | | 01303 8-729-901-01 TRANSISTOR DTC1/ 01304 8-729-901-00 TRANSISTOR DTC1/ 01305 8-729-216-22 TRANSISTOR 25A1 | 162-G |
| | | <d< td=""><td>CONNECTOR, BOA</td><td></td><td></td><td>Q1306 8-729-920-74 TRANSISTOR 25C2- Q1307 8-729-920-74 TRANSISTOR 25C2- Q1308 8-729-920-74 TRANSISTOR 25C2- Q1309 8-729-216-22 TRANSISTOR 25A1 Q1310 8-729-216-22 TRANSISTOR 25A1</td><td>112K-4K 112K-QR 162-G</td></d<> | CONNECTOR, BOA | | | Q1306 8-729-920-74 TRANSISTOR 25C2- Q1307 8-729-920-74 TRANSISTOR 25C2- Q1308 8-729-920-74 TRANSISTOR 25C2- Q1309 8-729-216-22 TRANSISTOR 25A1 Q1310 8-729-216-22 TRANSISTOR 25A1 | 112K-4K 112K-QR 162- G |
| | D1302 D1303 D1304 | 2 8-719-914-4 3 8-719-914-4 4 8-719-914-4 | 1 DIODE MA30511- 3 DIODE DAN202K 4 DIODE DAP202K 3 DIODE DAN202K 2 DIODE DA204K | | | Q1311 8-729-216-22 TRANSISTOR 2SA1 Q1312 8-729-216-22 TRANSISTOR 2SA1 Q1314 8-729-216-22 TRANSISTOR 2SA1 Q1315 8-729-216-22 TRANSISTOR 2SA1 | 162 -G 162 -G |
| | | | | | | | |



| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|--|--|---|---|--|---|---|--|--|
| Q1316 8-729-216-22 Q1317 8-729-216-22 Q1318 8-729-920-74 Q1319 8-729-920-74 Q1320 8-729-216-22 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC1412K-QR TRANSISTOR 2SC1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC12412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC12412K-QR TRANSISTOR 2SC12412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC24 | | R1327 R1328 R1330 R1332 R1333 | 1-216-083-00 1-216-073-00 1-216-053-00 1-216-071-00 1-216-085-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 27K 10K 1.5K 8.2K 33K | 5% 1. 5% 1. 5% 1. 5% 1. 5% 1. | /10W /10W /10W /10W /10W |
| Q1323 8-729-901-01 Q1324 8-729-920-74 Q1325 8-729-216-22 Q1326 8-729-119-78 Q1401 8-729-900-53 | TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SA1162-G TRANSISTOR 2SC2785-HFE TRANSISTOR DTC114EK | | R1334 R1335 R1336 R1337 R1338 | 1-216-073-00 1-216-053-00 1-216-043-00 1-216-059-00 1-216-043-00 1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K 1.5K 560 2.7K 560 | 5% 1. 5% 1. 5% 1. 5% 1. 5% 1. 5% 1. | /10W /10W /10W /10W /10W /10W |
| Q1402 8-729-920-74 Q1403 8-729-920-74 Q1404 8-729-920-74 Q1405 8-729-216-22 Q1407 8-729-216-22 | TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR TRANSISTOR 25A1162-G TRANSISTOR 25A1162-G TRANSISTOR 25A1162-G | | R1340 R1341 R1342 R1343 R1344 | 1-216-073-00 1-216-061-00 1-216-061-00 1-216-055-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CONDCTOR, CHI | 10K 3.3K 3.3K 1.8K | 5% 1 5% 1 5% 1 5% 1 | /10W /10W /10W /10W |
| 01409 8-729-216-22 01410 8-729-920-74 01411 8-729-901-01 01412 8-729-920-74 | TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K-QR TRANSISTOR DTC144EK TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR | | R1345 R1347 R1349 R1350 R1351 | 1-216-295-00 1-216-295-00 1-216-657-11 1-216-663-11 1-216-657-11 | CONDCTOR, CH CONDCTOR, CH METAL CHIP METAL CHIP METAL CHIP | 1 P 1 P 1 . 8 K 3 . 3 K 1 . 8 K | 0.50% 1 0.50% 1 0.50% 1 | /10W /10W /10W |
| Q1414 8-729-920-74 Q1415 8-729-920-74 Q1417 8-729-920-74 Q1418 8-729-920-74 | TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR TRANSISTOR 25C2412K-QR | | R1352 R1353 R1354 R1357 R1358 | 1-216-049-00 1-216-067-00 1-216-035-00 1-216-049-00 1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 5.6K 270 1K 5.6K | 5% 1 5% 1 5% 1 5% 1 | /10W /10W /10W /10W /10W |
| Q1421 8-729-920-74 Q1422 8-729-216-22 Q1423 8-729-920-74 Q1424 8-729-920-74 | TRANSISTOR 25L2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR TRANSISTOR 2SC2412K-QR | | R1359 R1360 R1361 R1362 R1363 | 1-216-043-00 1-216-055-00 1-216-637-11 1-216-635-11 1-216-295-00 | METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP CONDCTOR, CH | 560 1.8K 270 220 IP | 5% 1 5% 1 0.50% 1 0.50% 1 | 1/10W 1/10W 1/10W 1/10W |
| Q1501 8-729-920-74 Q1502 8-729-920-74 Q1505 8-729-901-04 Q1506 8-729-900-5 | TRANSISTOR 2SC2412K-QR TRANSISTOR DTA114EK TRANSISTOR DTC114EK TRANSISTOR DTC114EK | | R1364 R1365 R1366 R1367 | 1-216-037-00 1-216-067-00 1-216-043-00 1-216-039-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 330 5.6K 560 390 15K | 5% 1 5% 1 5% 1 5% 1 | 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W |
| Q1508 8-729-900-5 | TRANSISTOR DTC114EK | | R1369 R1370 R1371 | 1-216-049-00 1-216-079-00 1-216-065-00 1-216-051-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 18K 4.7K 1.2K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W |
| R1301 1-216-041-0 R1302 1-216-041-0 R1303 1-216-039-0 R1304 1-216-059-0 R1305 1-216-025-0 | 0 METAL GLAZE 470 5% 0 METAL GLAZE 470 5% 0 METAL GLAZE 390 5% 0 METAL GLAZE 2.7% 5% 0 METAL GLAZE 100 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R1373 R1374 R1375 R1376 R1377 | 1-216-049-00 1-216-065-00 1-216-666-1 1-208-784-1 1-216-065-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL CHIP METAL GLAZE CONDCTOR, CI | 1K 4.7K 4.3K 1.2K 4.7K | 5% 5% 0.50% 0.50% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R1306 1-216-041-0 R1307 1-216-041-0 R1308 1-216-061-0 R1309 1-216-025-0 R1310 1-216-025-0 | O METAL GLAZE 100 5% | 1/10W 1/10W | R1380 R1384 R1385 R1386 R1386 | 1-216-027-0 1-216-065-0 5 1-216-051-0 | O METAL GLAZE O METAL GLAZE | 4.7K 1.2K | 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R1312 1-216-073-0 R1313 1-216-081-0 R1315 1-216-085-0 R1316 1-216-041-0 | 00 METAL GLAZE 10K 5% 00 METAL GLAZE 22K 5% 00 METAL GLAZE 33K 5% 00 METAL GLAZE 470 5% | 1/10W 1/10W 1/10W 1/10W | R138' R138' R138' R139 R139 | 7 1-216-115-0 8 1-216-039-0 9 1-216-025-0 0 1-216-025-0 | O METAL GLAZE O METAL GLAZE O METAL GLAZE O METAL GLAZE | 390 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/4W |
| R1317 1-216-041-(R1318 1-216-041-(R1320 1-216-035-(R1321 1-216-073-(R1322 1-216-063-(| 00 METAL GLAZE 470 5% 00 METAL GLAZE 270 5% 00 METAL GLAZE 10K 5% 00 METAL GLAZE 3.9K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | R140 R140 R140 R140 | 1 1-216-065-0 2 1-216-053-0 3 1-216-077-0 4 1-216-053-0 | O METAL GLAZE O METAL GLAZE O METAL GLAZE O METAL GLAZE | 4.7K 1.5K 15K 1.5K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |
| R1323 1-216-033-1 R1324 1-216-033-1 R1325 1-216-065-1 R1326 1-216-065-1 | 00 METAL GLAZE 220 5% 00 METAL GLAZE 4.7K 5% | 1/10W 1/10W 1/10W 1/10W | R140 R140 R140 | 6 1-216-025-0 | | 100 | 5% | 1/10W 1/10W 1/10W |

B F2

The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|-------------------------|--|---|-----------------------------------|----------------------|--|--------|----------------|--|------------------------------|-------------------------------------|----------------------|-------------------------|---|
| R1408 | 1-216-065-00 1-216-073-00 | METAL GLAZE | 4.7K | 5% 5% | 1/10W 1/10W | | R1483 | 1-216-049-00 | METAL GLAZE | 1 K | 5% | 1/10W | |
| R1410 | 1-216-059-00 | METAL GLAZE METAL GLAZE | 4.7K 10K 2.7K 150 180 | 5% 5% | 1/10W 1/10W | | R1484 R1485 | 1-216-049-00 1-216-089-00 | METAL GLAZE METAL GLAZE | 1 K 47 K | 5% 5% | 1/10W 1/10W | |
| R1412 | 1-216-031-00 | METAL GLAZE | | | 1/10W | | . B1486 | 1-216-081-00 1-216-057-00 1-216-047-00 | METAL GLAZE | 22K 2.2K | 5% 5% 5% 5% | 1/10W 1/10W | |
| R1414 | 1-216-059-00 1-216-061-00 | METAL GLAZE METAL GLAZE | 2.7K 3.3K 1.8K 4.7K | 5% 5% | 1/10W 1/10W | | ! | | | 820 | | 1/10W | |
| R1416 | 1-216-055-00 1-216-065-00 | METAL GLAZE METAL GLAZE | 1.8K 4.7K | 5% 5% 5% | 1/10W 1/10W 1/10W | | R1503 | 1-216-085-00 1-216-075-00 1-216-065-00 | METAL GLAZE METAL GLAZE | 12K | 5% 5% | 1/10W 1/10W 1/10W | |
| | 1-216-031-00 | METAL GLAZE | 100 | 74 | 1/10W | | R1505 | 1-216-073-00 1-216-073-00 | METAL GLAZE METAL GLAZE | 33K 12K 4.7K 10K 10K | 5% 5% | 1/10W 1/10W | |
| R1419 | 1-216-073-00 1-216-045-00 | METAL GLAZE METAL GLAZE | 22K 10K 680 | r iv | 1 /100 | | 1 | | | | | 1/10W | |
| R1421 | 1-216-073-00 1-216-043-00 | METAL GLAZE METAL GLAZE | 10K 560 | 5% 5% | 1/10W 1/10W 1/10W 1/10W | | R1509 R1510 | 1-216-079-00 1-216-065-00 1-216-065-00 1-216-067-00 | METAL GLAZE METAL GLAZE | 18K 4.7K 4.7K 5.6K 1.2K | 5% 5% | 1/10W 1/10W | |
| R1424 R1425 | 1-216-073-00 1-216-065-00 | METAL GLAZE METAL GLAZE | 10K | 5% 5% | 1/10W 1/10W | | i K1523 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W 1/10W | |
| R1426 | 1-216-047-00 1-216-083-00 | METAL GLAZE METAL GLAZE | 10K 4.7K 820 27K 330 | 5% 5% | 1/10W 1/10W | | R1524 R1525 | 1-216-097-00 | METAL GLAZE METAL GLAZE | 5.6K 100K 3.3K | 5% 5% | 1/10W 1/10W | |
| R1428 | 1-216-037-00 | METAL GLAZE | | | 1/10W | | R1526 | 1-216-061-00 1-216-049-00 1-216-073-00 | METAL GLAZE | 1 K | 5% 5% 5% | 1/10W 1/10W | |
| R1429 R1430 | 1-216-041-00 1-216-071-00 | METAL GLAZE | 470 8.2K 12K 1K 100 | 5% 5% | 1/10W 1/10W | | 1 | | | 10K | | 1/10W 1/10W | |
| R1431 R1432 | 1-216-075-00 1-216-049-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 12K 1K | 5% 5% | 1/10W 1/10W 1/10W | | R1530 | 1-216-057-00 1-216-049-00 1-216-009-00 | METAL GLAZE METAL GLAZE | 2.2K 1K 22 | 5% 5% 5% | 1/10W 1/10W 1/10W | |
| R1434 | 1-216-025-00 | METAL GLAZE | | | | | 1 R1532 | 1-216-057-00 1-216-057-00 1-216-073-00 | METAL GLAZE METAL GLAZE | 2.2K 1K 22 2.2K 10K | 5% 5% | 1/10W 1/10W | |
| R1435 R1436 | 1-216-061-00 1-216-065-00 | METAL GLAZE METAL GLAZE | 3.3K 4.7K | 5% 5% | 1/10W 1/10W 1/10W | | 1 | 1-216-057-00 1-216-009-00 | | 2.2K 22 | | 1/10W | |
| R1437 R1438 | 1-216-091-00 1-216-075-00 | METAL GLAZE METAL GLAZE | 100 3.3K 4.7K 56K 12K | 5% 5% | 1/10W 1/10W | | R1834 | 1-216-009-00 | METAL GLAZE | 22 | 5% | 1/10W | |
| R 1 4 3 9 R 1 4 4 0 | | METAL GLAZE METAL GLAZE | 4.7K | 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W | | | | HABLE RESISTO | | | | |
| R1441 R1442 | 1-216-049-00 | METAL GLAZE METAL GLAZE | 1K 2.7K | 5% | 1/10W 1/10W | | RV1501 | 1-241-763-11 | RES, ADJ, CE | RMET 4. | 7K | | |
| R1443 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | | | <cr)< td=""><td>STAL></td><td></td><td></td><td></td><td></td></cr)<> | STAL> | | | | |
| R1444 R1445 | 1-216-051-00 | MEIND GENEE | 470 1.2K 820 1K 680 | 5% 5% | 1/10W 1/10W 1/10W | | X1302 | 1-760-191-11 1-760-190-11 1-760-095-21 | VIBRATOR, CR | YSTAL | | | |
| R1446 R1447 R1448 | 1-216-049-00 | METAL GLAZE | 1K 680 | 5% 5% | 1/10W 1/10W | | X1401 X1402 | 1-760-095-21 1-760-190-11 | VIBRATOR, CR VIBRATOR, CR | YSTAL YSTAL | | | |
| R1449 | 1-216-045-00 | METAL GLAZE | | | - | | X1403 | 1-760-191-11 | VIBRATOR, CR | YSTAL | | | |
| R1450 R1451 | 1-216-057-00 | METAL GLAZE | 2.2K 1.2K | 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | į | *********** | | | **** | ****** | ******* |
| R1452 R1453 | 1-216-041-00 1-216-049-00 | METAL GLAZE METAL GLAZE | 1K | 5% 5% | 1/10W | | | *A-1241-173-A | ********** | ***** | | | |
| | 1-216-025-00 1-216-025-00 | | 100 100 | 57 | 1/10W 1/10W | | | 1-533-223-11 | CLIP, FUSE | | | | |
| R1456 R1457 | 1-216-079-00 1-216-081-00 | METAL GLAZE METAL GLAZE | 18K 22K | 5% 5% | 1/10W 1/10W | | İ | <00 | NNECTOR> | | | | |
| | 1-216-097-00 | | 100K | 5% | 1/10W | | CN360 | 1 *1-5 80-844-11 2 *1-6 95-292-11 | PIN, CONNECT | OR (PO | VER) | | |
| R1461 | | METAL GLAZE | 330 330 10K | 5% 5% | 1/10W 1/10W 1/10W | Ì | CN36U. | Z*1-695-29Z-11 | PIN, CURNECI | טא (רטו | MCD.) | | |
| | 1-216-073-00 1-216-073-00 1 1-216-045-00 | METAL GLAZE | 10K 10K 680 | 57757 57757 | 1/10W 1/10W | | | < FU | | | | | |
| R1469 | 1-216-059-00 | METAL GLAZE | 2.7K | | 1/10 | | F3601 | ∆ 1-532-505-31 | FUSE (5.0A/2 | 250V) | And the second | | Lindau og de flesk kolonier fil de 19. de – 1821, 1830 i 19. 19. de – 1822 i 19. de jan |
| R1475 R1476 | 5 1-216-295-00 5 1-216-063-00 | CONDCTOR, CI METAL GLAZE | 3.9K | | 1/10 | | | <s₩< td=""><td>ITCH></td><td></td><td></td><td></td><td>÷</td></s₩<> | ITCH> | | | | ÷ |
| R1478 R1478 | 7 1-216-061-00 3 1-216-059-00 | | 3.3K 2.7K | 57 | 1/10V 1/10V | | S3601 | ∆ .1-571-453-12 | SVITCH, PUSI | l (ACP | OWER) | | |
| | 9 1-216-057-00 0 1-216-057-00 | | 2.2K 2.2K | 57 57 | 1/10V 1/10V | | **** | ********** | ********* | ***** | ***** | t****** | ****** * |
| R148 | 1 1-216-045-00 2 1-216-041-00 | METAL GLAZE | 680 470 | 5% 5% 5% 5% | 1/100 1/100 | į | ! ! ! | | | | | | |

The components identified by shading and mark ∆ are critical for safety.
Replace only with part number specified.

F1 Q

| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--|--|----------------------------|---------------------------------|---|---|---|----------------|----------------------------|--|
| *A-1241-174-A | F1 BOARD, COMPLETE | | | <resi< td=""><td>STOR></td><td></td><td></td><td></td><td></td></resi<> | STOR> | | | | |
| | SCREW (M3X10), P, SW (+) | | R1605 R1606 | 1-247-289-00 1-219-363-11 1-249-416-11 1-249-416-11 | CARBON FUSIBLE CARBON CARBON | 8.2M 5.6 820 820 4.7 | 5% 5% 5% | 1W 5W 1/4W 1/4W | F |
| C1601A 1-104-706-51 | FFEN 0:22MF 20 | 4 0.504 | | 1-260-300-11 1-214-925-00 | | | | 1/2W 1/2W | |
| C1603 1-136-601-11 C16094 1-104-706-51 C1611 1-161-742-00 | FILM 0.0 MF 10 FIEW 0.22MF 20 CERAMIC 0.0022MF 20 | 7 630V 2 250V 7 400V | R1610 | 1-214-925-00 1-214-925-00 1-216-425-11 1-249-429-11 1-249-429-11 | METAL OXIDE CARBON | 330K 330K 56 10K 10K | 5% 5% 5% | 1/2W 1W 1/4W 1/4W | F |
| C16124 1-161-830-91 C16134 1-161-830-91 C1614 1-161-830-00 C1615 1-161-830-00 C1616 1-136-207-11 | CERAMIC 0.0047MF | 500V | R1613 R1614 | 1-249-417-11 1-215-928-11 | CARBON METAL OXIDE | 1K 68K | 5% 5% | 1/4W 3W | |
| C1617 1-136-187-11 | MYLAR 0.047MF 5% | 250V | i nuscina | <rel< td=""><td></td><td>SA PREMIS</td><td>.7 FM 1977</td><td>e seve</td><td></td></rel<> | | SA PREMIS | .7 FM 1977 | e seve | |
| C1618 1-136-165-00 C1619 1-107-667-11 C1620 1-124-122-11 | FILM U. 1MF 57 ELECT 2. 2MF 20 | 1 2 400V | K11001 | | | · 新新成立。 | 2-191 (MEZE | Berne Bullian (1990) | 386, FA |
| C1621 1-136-165-00 | FILM 0.1MF 5% | 6 50V | 71697 | <tra - 1-421-944-11</tra | nsformer> - ************************************ | THE E | Herre | huggoster Gr | oue Bir ini ecce ^{nt} |
| C1622 1-162-318-11 C1624 1-104-350-11 C1625 1-104-350-11 | CERAMIC 0.001MF 10 ELECT 1000MF 20 ELECT 1000MF 20 ELECT 1MF 20 | 250V | 1-10022 | L.1-4217744-11 | - Lambourday | erne i | . LE LOU | 1.23pp. | Control of the second |
| Č1626 1-124-903-11 | ELECT 1MF 20 | | TIL1 601 | THE> <u>A1</u> -809-827-21 | RMISTOR> | enetti i | 1871-257 | | |
| <00 | NNECTOR> | | ! | <u>///</u> -009::02 <i>1</i> -21::::::::::::::::::::::::::::::::::: | | | | | |
| CN1602*1-508-765-00 | PIN, CONNECTOR (PC BOARD) ? PIN, CONNECTOR (5MM PITCH) PIN, CONNECTOR (5MM PITCH) PIN, CONNECTOR (5MM PITCH) TAB (CONTACT) | 3P 3P 2P | 1 | *A-1275-126-A | Q BOARD, COMI | PLETE ***** | | | |
| CN1608 1-766-964-11 CN1609*1-564-507-11 | PIN, CONNECTOR (PC BOARD) (PLUG, CONNECTOR 4P | 6P | C01 | 1-164-232-11 | CERANIC CHIP | 0.01M | î | 10% | 50 Y |
| | | | | 1-124-927-11 | ELECT ELECT CERAMIC CHIP CERAMIC CHIP | 4.7MF | F | 20% 20% 10% 10% | 50 V 50 V 16 V |
| D1601A 8-719-510-53 D1602 8-719-049-49 D1603 8-719-110-16 D1604 8-719-304-63 D1605 8-719-979-58 | ODE> DIODE D4SB6OL DIODE TF541S DIODE R010ESB3 DIODE RM11C DIODE EGP10D | | C06 C07 C08 C09 C10 | 1-126-964-11 1-163-038-91 1-163-038-91 1-104-664-11 1-124-927-11 | ELECT CERAMIC CHIP CERAMIC CHIP ELECT ELECT | 10MF 0.1MF 0.1MF 47MF 4.7MF | | 20% 20% 20% | 50 V 25 V 25 V 25 V 30 V |
| D1606 8-719-911-19 D1607 8-719-304-63 | DIODE 188119 DIODE RM11C | | C11 | 1-163-125-00 | CERAMIC CHIP | 220PF | | 5% 5% | 5 0 Y 5 0 Y |
| | ERRITE BEAD> | ur. | C12 C13 C14 C15 | 1-163-125-00 1-164-346-11 1-124-927-11 1-163-038-91 | CERAMIC CHIP | 1MF 4.7MF | | 20% | 16V 50V 25V |
| FB1601 1-410-397-2 | 1 FERRITE BEAD INDUCTOR 1.10 | JH | C16 C17 | 1-126-964-11 1-163-989-11 | CERAMIC CHIP | 10MF 0.033 | MF | 20 % 10 % | 50Y 25Y |
| IC160188-749-923-9- | C> 4 = TC STR81159A | misk water us a second | C18 C19 C20 | 1-163-989-11 1-163-097-00 1-163-125-00 | CERAMIC CHIE | 15PF | | 10% 5% 5% | 25V 50V 50V |
| | | | C21 | 1-163-125-00 1-164-222-11 | CERAMIC CHIE | 220PF | ì | 5% | 5 0 V 2 5 V |
| <0 L1601 1-412-525-2 | OIL> 1 INDUCTOR 10UH | | C22 C23 C24 C25 | 1-163-038-91 1-163-038-91 | | P 0.1MF P 0.1MF | i i | | 250 250 250 250 250 250 |
| 01601 8-729-119-7 | RANSISTOR> 8 TRANSISTOR 2SC2785-HFE 8 TRANSISTOR 2SC2785-HFE | | C26 C27 C28 C29 C30 | 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 1-163-009-11 | CERAMIC CHI | PO.1M PO.1M PO.1M | 7 7 8 | 10% | 257 257 257 257 250 |



| K | | | | | | | | | |
|---------------------------------|--|---|------------------------|---------------------------------|----------------------------------|--|--|------------------|---------------------------------|
| REF.N | D. PART NO. | DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
| C31 C32 | 1-163-239-11 1-124-927-11 | CERAMIC CHIP 33PF ELECT 4.7MF | 5% 20% | 50V 50V | C1004 | 1-164-346-11 | | | 16V |
| C33 C34 C35 | 1-126-964-11 1-163-038-91 1-126-964-11 | ELECT 10MF CERAMIC CHIP 0.1MF ELECT 10MF | 20% 20% | 50V 25V 50V | C1006 C1007 C1008 | 1-163-038-91 1-163-038-91 1-163-038-91 1-163-038-91 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | | 25V 25V 25V 25V 25V |
| C36 C37 C38 C39 C40 | 1-163-009-11 1-163-009-11 1-163-121-00 1-163-121-00 1-163-239-11 | CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 150PF CERAMIC CHIP 150PF CERAMIC CHIP 33PF | 10% 10% 5% 5% | 50V 50V 50V 50V 50V | C1014 C1016 | 1-163-038-91 1-163-251-11 1-164-346-11 1-164-232-11 1-163-009-11 | CERAMIC CHIP 0.01MF | 5% 10% 10% | 50V 16V 50V 50V |
| C41 C42 C43 C44 C45 | 1-126-964-11 1-163-038-91 1-163-038-91 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 20% 5% | 25V 50V 25V 25V 50V | C1018 C1019 C1020 C1022 | 1-163-038-91 1-163-038-91 1-163-251-11 1-163-038-91 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF | 5% | 25V 25V 50V 25V |
| C46 | 1-163-125-00 | CERAMIC CHIP 220PF | 5% | 50V | C1023 | 1-163-038-91 1-163-038-91 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | | 25V 25V |
| C47 C48 C49 C50 | 1-164-232-11 1-163-129-00 1-163-038-91 1-163-014-00 | CERAMIC CHIP 330PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0027M | | 50V 50V 25V 50V | C1025 C1026 C1027 C1028 | 1-164-346-11 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP IMF CERAMIC CHIP IMF | | 25V 25V 16V 16V |
| C51 C52 C53 | 1-164-232-11 1-163-038-91 1-163-038-91 | CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF | 10% | 50V 25V 25V | | <001 | NNECTOR> | | |
| C54 C55 | 1-126-964-11 | ELECT 10MF CERAMIC CHIP 0.1MF | 20% | 50V 25V | CN40 | 1-695-301-11 | CONNECTOR, BOARD TO BOAR | RD 40P | |
| C56 C57 | 1-163-113-00 1-163-237-11 | CERAMIC CHIP 27PF | 5% 5% 5% 5% | 50V 50V | | <d](< td=""><td>ODE></td><td></td><td></td></d](<> | ODE> | | |
| C59 C61 C62 | 1-163-113-00 1-163-129-00 1-164-232-11 | CERAMIC CHIP 68PF CERAMIC CHIP 330PF CERAMIC CHIP 0.01MF | 10% | 50V 50V 50V | D03 D04 D05 | 8-719-047-37 8-719-047-37 | DIODE BBY40 DIODE BAS16 DIODE BAS16 | | |
| C63 C64 | 1-124-927-11 | | 10% 20% | 25V 50V 25V | D06 D08 | 8-719-047-37 | DIODE BASI6 DIODE BBY40 | | |
| C65 C66 C67 | 1-163-117-00 1-163-038-91 | CERAMIC CHIP 100PF CERAMIC CHIP 0.1MF | 5% 20% | 50V 25V 50V | D09 D10 D11 D12 | 8-719-047-37 8-719-047-36 8-719-047-37 8-719-047-37 | DIODE BAS16 DIODE BBY40 DIODE BAS16 DIODE BAS16 | | |
| C68 C69 C70 C71 | 1-163-038-91 1-163-117-00 1-163-129-00 | CERAMIC CHIP 0.1NF CERAMIC CHIP 100PF CERAMIC CHIP 330PF | 5% 5% | 25V 50V 50V | D13 | 8-719-105-91 8-719-914-43 | DIODE RD5.6M-B2 | | |
| C72 | | CERANIC CHIP 0.0027 | MF 10% | 25V 50V | D16 | | | | |
| C7/ C7/ C7/ C7/ | 1 1-164-232-11 5 1-163-243-11 6 1-163-253-11 | CERAMIC CHIP 0.01MF CERAMIC CHIP 47PF CERAMIC CHIP 120PF | 10% | 50V 50V 50V 50V | FB01 FB02 | 1-414-232-11 | RRITE BEAD> INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD | | |
| C7 C8 | 9 1-126-964-1 2 1-163-097-0 | | 20% 5% | 50Y 50V | | <f;< td=""><td>ILTER></td><td></td><td></td></f;<> | ILTER> | | |
| C8 C8 C8 | 4 1-163-037-1 5 1-163-038-9 | 1 CERAMIC CHIP 0.022M 1 CERAMIC CHIP 0.1MF | | 25V 25V 25V | FL01 FL02 FL03 | 1-239-882-1 1-236-071-4 1-236-071-4 | 1 ENCAPSULATED COMPONENT 1 ENCAPSULATED COMPONENT | | |
| C8 C8 | 8 1-163-038-9 | 1 CERAMIC CHIP O 1MF | | 25V 25V | FL04 FL05 | 1-236-071-4 1-236-071-4 | 1 ENCAPSULATED COMPONENT | | |
| C8 C9 C9 | 9 1-163-038-9 10 1-163-251-1 11 1-126-964-1 | 1 CERAMIC CHIP 100PF 11 ELECT 10MF | 5% 20% | 25V 50V 50V | FL06 FL08 FL09 | 1-236-071-4 1-239-881-1 | 1 ENCAPSULATED COMPONENT 1 FILTER, LOW PASS | | |
| 09 09 | 94 1-126-233 | OI CERAMIC CHIP 0.1MF | 20% | 25V 25V 50V 25V | FL10 FL11 | 1-239-883-1 | 1 FILTER, LOW PASS | | |
| | 96 1-126-233-1 | 11 ELECT 22MF | 20% | 50 V | 1001 | | C> 59 | | |
| C | 97 1-163-038-1 98 1-126-233- 99 1-163-038-1 1001 1-163-038- | 11 ELECT 22MF 91 CERAMIC CHIP 0.1MF | 20% | 25V 50V 25V 25V | 1 CO1 1 CO2 1 CO3 | 8-759-280-7 8-759-280-7 | 76 IC ZA2970-26DTR | • | |



| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|--|--|--------|---------------------|--|--|----------------------|-------------------------|
| I CO6 8-759-257-92 I CO7 8-759-297-15 | IC SAA4951WP/V1-T IC P83C652FBA-V3/AB517 | | L10 L14 | 1-426-801-21 1-408-409-00 | TRANSFORMER, DETECTO INDUCTOR 10UH | R | |
| I CO8 8-759-708-05 I C10 8-759-033-03 I C11 8-759-708-05 | IC MC74F08M IC NJM78L05A | | L15 L16 L1001 | 1-408-409-00 1-408-409-00 1-410-989-11 | INDUCTOR 10UH INDUCTOR 10UH INDUCTOR CHIP 0.47U | H | |
| IC12 8-759-267-22 IC13 8-759-238-87 IC14 8-759-708-05 IC15 8-759-238-87 | IC MC14046BDWR2 IC TC4566F(TE85R) IC NJM78L05A IC TC4566F(TE85R) | | | <tra< td=""><td>NSISTOR></td><td></td><td></td></tra<> | NSISTOR> | | |
| IC16 8-759-033-03 IC17 8-759-257-63 IC18 8-759-708-05 | IC NC74F08N | | Q01 Q03 Q04 | 8-729-216-22 8-729-216-22 8-729-920-74 | TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SA1162-G | QR QR | |
| IC18 8-759-708-05 IC19 8-759-238-87 IC20 8-759-238-87 IC23 8-752-012-52 | IC TC4566F (TE85R) IC TC4566F (TE85R) IC CX20125 | | 006 007 | 8-729-216-22 8-729-901-01 | TRANSISTOR 2SA1162-G | į | |
| I C24 8-759-710-86 I C25 8-759-042-02 | IC SAA4951WP/V1-T IC P83C652FBA-V3/AB517 IC NJM78L05A IC MC74F08M IC NJM78L05A IC MC14046BDMR2 IC TC4566F (TE85R) IC NJT8L05A IC TC4566F (TE85R) IC HC74F08M IC SAA7158WP-T IC NJM78L05A IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC TC4566F (TE85R) IC S-80743AL-A7-S | | Q09 Q10 Q11 | 8-729-025-25 8-729-920-74 8-729-025-25 8-729-025-25 | TRANSISTOR DTC144EK TRANSISTOR BF550 TRANSISTOR 25C2412K- TRANSISTOR BF550 TRANSISTOR BF550 | QR | |
| <con< td=""><td>IDCTOR CHIP></td><td></td><td>Q12 Q13</td><td>0-720-020-74</td><td>TO ANCISTON 2501102</td><td>-OR</td><td></td></con<> | IDCTOR CHIP> | | Q12 Q13 | 0-720-020-74 | TO ANCISTON 2501102 | -OR | |
| JR15 1-216-295-00 JR17 1-216-295-00 JR19 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | Q14 Q15 Q16 | 8-729-920-74 8-729-920-74 8-729-216-22 | TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SA1162-0 | -QR -QR | |
| JR22 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP | | Q17 Q18 | 9_720_001_01 | TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2541162- | τ. | |
| JR23 1-216-295-00 JR24 1-216-295-00 JR25 1-216-295-00 JR26 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | 020 021 | 8-729-216-22 8-729-216-22 | TRANSISTOR 2SA1162- TRANSISTOR 2SA1162- TRANSISTOR 2SA1162- | 3 | |
| JR30 1-216-295-00 | CONDCTOR, CHIP | | 022 023 | 8-729-920-74 8-729-920-74 | TRANSISTOR 2SC2412K TRANSISTOR 2SC2412K | -QR -QR | |
| JR35 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | Q24 Q27 Q28 | 8-729-901-01 8-729-920-74 8-729-216-22 | TRANSISTOR DTC144EK TRANSISTOR 2SC2412K TRANSISTOR 2SA1162- | -QR G | |
| JR36 1-216-295-00 JR37 1-216-295-00 | CONDITION, CHIP CONDITION, CHIP | | 029 030 | 8-729-901-01 8-729-920-74 | TRANSISTOR DTC144EK TRANSISTOR 2SC2412K | -QR | |
| JR39 1-216-295-00 JR40 1-216-295-00 JR43 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | | <re><re< td=""><td>SISTOR> CONDCTOR, CHIP OF METAL GLAZE 470K METAL GLAZE 100 METAL GLAZE 1K METAL GLAZE 820 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 680</td><td></td><td></td></re<></re> | SISTOR> CONDCTOR, CHIP OF METAL GLAZE 470K METAL GLAZE 100 METAL GLAZE 1K METAL GLAZE 820 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 680 | | |
| JR45 1-216-295-00 | CONDCTOR, CHIP | | RO2 RO4 | 1-216-295-00 1-216-113-00 1-216-025-00 | CONDCTOR, CHIP METAL GLAZE 470K | 5% 5% | 1/10W 1/10W |
| JR46 1-216-295-00 JR47 1-216-295-00 JR48 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | R07 R08 | 1-216-049-00 1-216-047-00 | METAL GLAZE 1K METAL GLAZE 820 | 5% 5% | 1/10W 1/10W |
| JR50 1-216-295-00 | CONDCTOR, CHIP | | R09 R10 R11 | 1-216-049-00 1-216-025-00 1-216-045-00 |) METAL GLAZE 1K) METAL GLAZE 100) METAL GLAZE 680 | 5% 5% 5% | 1/10W 1/10W 1/10W |
| JR51 1-216-295-00 JR52 1-216-295-00 JR53 1-216-295-00 JR54 1-216-295-00 | CONDCTOR, CHIP | | R12 R13 | 1-216-041-00 1-216-057-0 |) METAL GLAZE 470 | 5% 5% | 1/10W 1/10W |
| JR55 1-216-295-0 | O CUNDCTUR, CHIP | | R14 R15 R16 | 1-216-041-0 1-216-047-0 1-216-051-0 | O METAL GLAZE 820 | 5% 5% 5% | 1/10W 1/10W 1/10W |
| JR56 1-216-295-0 JR57 1-216-295-0 JR58 1-216-295-0 | O CONDCTOR, CHIP | | R20 R21 | 1-216-035-0 1-216-045-0 | O METAL GLAZE 270 | 5% 5% | 1/10W 1/10W |
| <0 | OIL> | | R22 R23 R24 | 1-216-017-0 1-216-051-0 1-216-025-0 | O METAL GLAZE 1.2K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W |
| LO2 1-410-435-2 | 1 INDUCTOR 220UH 11 INDUCTOR 220UH | | R25 R26 | 1-216-047-0 1-216-025-0 | O METAL GLAZE 820 | 5% 5% | 1/10W 1/10W |
| L04 1-408-409-0 L05 1-426-942-1 L06 1-426-941-1 | 1 TRANSFORMER, DETECTOR | | R27 R28 R29 | 1-216-025-0 1-216-001-0 1-216-085-0 | IO METAL GLAZE 10 | 5% 5% 5% | 1/10W 1/10W 1/10W |
| L07 1-426-803-2 L08 1-408-409-0 L09 1-408-409-0 | OO INDUCTOR 10UH | | R30 R33 | 1-216-295-0 1-216-057-0 | O CONDETOR. CHIP | | 1/104 |



| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|--|---|-------------------------------------|----------------------|---|--------|---|--|---|--|--|--|-------------|
| R35 R36 R37 | 1-216-065-00 1-216-001-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 4.7K 1K 4.7K 10 220 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | | 1-216-043-00 1-216-057-00 1-216-057-00 1-216-057-00 1-216-047-00 1-216-017-00 | WEMAL CLASE | 560 2.2K 2.2K 2.2K 2.2K 820 47 | | 1/10W 1/10W 1/10W 1/10W | |
| R40 R41 R42 | 1-216-295-00 | METAL GLAZE METAL GLAZE CONDCTOR, CHIL CONDCTOR, CHIL METAL GLAZE | 3.3K 1.5K 560 | 5% 5% 5% | 1/10W | | R1017 R1018 R1019 | 1-216-047-00 1-216-017-00 1-216-025-00 1-216-017-00 1-216-017-00 1-216-045-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47 100 47 47 680 | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R46 R47 R48 | 1-216-033-00 | | 4.7K 10K 33K 2.7K 220 | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R1021 R1022 R1024 R1026 R1027 | 1-216-025-00 1-216-001-00 1-216-051-00 1-216-067-00 1-216-033-00 | METAL GLAZE METAL GLAZE | 100 1.2K 5.6K 220 330 | | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R54 R55 R56 R57 | 1-216-073-00 1-216-001-00 1-216-065-00 1-216-033-00 1-216-053-00 1-216-097-00 | | 10K 10 4.7K 220 1.5K | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R1029 R1030 | 1-216-037-00 1-216-037-00 1-216-025-00 1-216-045-00 1-216-045-00 1-216-067-00 | METAL GLAZE METAL GLAZE | 330 100 680 680 5.6K | | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R59 R60 R61 R62 | 1-216-059-00 | | 100K 2.7K 220 120K 8.2K | | 1/10W 1/10W 1/10W 1/10W | | R1038 R1039 R1040 R1041 R1042 | 1-216-295-00 1-216-295-00 1-216-049-00 1-216-049-00 1-216-025-00 | CONDCTOR, CHI | IP IP. 1K 1K 100 | 5% 5% 5% | 1/10W 1/10W 1/10W | |
| R66 R67 R68 R69 | 1-216-025-00 1-216-053-00 1-216-049-00 1-216-077-00 1-216-085-00 | | 10 100 1.5K 1K 15K | | 1/10W 1/10W 1/10W 1/10W | | R1043 R1044 R1045 R1046 R1047 | 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 | METAL GLAZE HETAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 100 100 100 | | 1/10₩ 1/10₩ 1/10₩ 1/10₩ 1/10₩ | |
| R71 R72 R73 R74 | 1-216-063-00 1-216-033-00 1-216-073-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 33K 3.9K 220 10K 1K | | 1/10W 1/10W 1/10W 1/10W | | R1048 R1049 R1050 | 1-216-025-00 | METAL GLAZE METAL GLAZE CONDCTOR, CH | 100 100 IP | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| R75 R76 R77 R78 R79 | 1-216-037-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 390 390 5.6K 330 1K | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R1054 R1055 | 1-216-057-00 1-216-057-00 | METAL G AZE METAL GLAZE | 2.2K 2.2K 2.2K 2.2K | 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| R80 R81 R83 R84 R85 | 1-216-051-00 1-216-033-00 1-216-049-00 1-216-073-00 | | 470 1.2K 220 1K 10K | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R1061 R1062 R1063 R1064 | 1-216-061-00 1-216-067-00 1-216-049-00 1-216-295-00 | METAL GLAZE METAL GLAZE METAL GLAZE CONDCTOR. CH | 560 3.3K 5.6K 1K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| R89 R90 R91 R92 | 1-216-025-00 1-216-039-00 1-216-073-00 1-216-039-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 100 390 10K 390 | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R1066 R1067 R1068 R1069 | 1-216-059-00 1-216-059-00 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 2.7K 2.7K 100 100 | | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R93 R94 R95 R96 R99 | 1-216-039-00 1-216-025-00 1-216-025-00 1-216-295-00 1-216-025-00 | METAL GLAZE METAL GLAZE CONDCTOR, CH METAL GLAZE | 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W | } | R1070 R1071 R1072 R1073 R1074 | 1-216-025-0 1-216-025-0 1-216-025-0 1-216-025-0 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 100 100 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R1001 R1002 R1003 R1004 R1005 | 1-216-025-00 1-216-025-00 1-216-033-00 1-216-033-00 1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 220 220 220 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |)) | R1075 R1076 R1077 R1078 R1079 | 1-216-025-0 1-216-025-0 1-216-025-0 1-216-025-0 1-216-025-0 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 100 100 100 | 5% 5% 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W |) } } |
| R1006 R1007 R1008 R1009 | 1-216-053-0 | D METAL GLAZE | 1.5K 1.5K 100 560 | 5% 5% 5% | 1/100 1/100 1/100 1/100 | d d | R1080 R1081 R1082 | 1-216-025-0 1-216-025-0 | O METAL GLAZE O METAL GLA <u>ze</u> | 100 100 100 | 5% 5% | 1/104 1/104 1/104 |) |

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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| REF. NO. PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | REMARK |
|--|--|--|--------------------------------------|---|---|--|
| R1083 1-216-025-00 R1084 1-216-045-00 R1085 1-216-041-00 R1086 1-216-053-00 R1087 1-216-065-00 | METAL GLAZE 680 5% METAL GLAZE 470 5% METAL GLAZE 1.5K 5% METAL GLAZE 4.7K 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | IF101 IF102 | 1-466-677-11 | BLOCK> IF BLOCK (IFF-380) IF BLOCK (IFF-380A) | (KV-W32MN11/MH11) |
| R1088 1-216-065-00 R1089 1-216-067-00 R1091 1-216-025-00 | | 1/10W 1/10W 1/10W | | <c011< td=""><td></td><td></td></c011<> | | |
| | STAL> VIBRATOR, CRYSTAL | | L101 L102 L103 L104 L105 | | | (KV-W32MN11/MH11) (KV-W32MN11/MH11) (KV-W32MN11/MH11) |
| | ******* | ****** | i 1 | 1-408-417-00 | INDUCTOR 47UH | |
| *A-1297-417-A | A2 BOARD, COMPLETE (KV-W | 28MN11/MH11) | | <trai< td=""><td>NSISTOR></td><td></td></trai<> | NSISTOR> | |
| | A2 BOARD, COMPLETE (KV-W | | Q101 | 8-729-216-22 | TRANSISTOR 2SA1162-0 | i |
| · CAT | ******* | | 1 | <res< td=""><td>ISTOR></td><td></td></res<> | ISTOR> | |
| C101 1-124-126-00 C102 1-163-005-11 | CERAMIC CHIP 470PF CERAMIC CHIP 0.01MF | 207 16V 107 50V 50V 207 50V 207 50V | R102 R103 R104 R105 R106 | 1-216-464-11 1-216-081-00 1-216-033-00 1-216-033-00 1-216-073-00 | METAL GLAZE 22K METAL GLAZE 220 METAL GLAZE 220 METAL GLAZE 10K | 5% 2W F 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W |
| | CERANIC CHIP 470PF CERANIC CHIP 470PF | 10% 50V 10% 50V | R107 R108 R109 | 1-216-073-00 1-216-077-00 1-216-033-00 | METAL GLAZE 10K METAL GLAZE 15K METAL GLAZE 220 | 52 1/10W 52 1/10W 52 1/10W (KV-W32MN11/MH11) |
| C108 1-126-233-11 | ELECT 22MF | (V-W32MN11/MH11) 20% 50V (V-W32MN11/MH11) | R110 | 1-216-033-00 | METAL GLAZE 220 | 5% 1/10W |
| C109 1-126-233-11 C110 1-124-126-00 C111 1-163-005-11 | ELECT 22MF ELECT 47MF | 20% 50V 20% 16V (V-W32MN11/MH11) 10% 50V | R111 R112 R113 | 1-216-073-00 1-216-121-00 1-216-097-00 | METAL GLAZE IM | (KV-W32MN11/MH11) 5% 1/10W (KV-W32HN11/MH11) 5% 1/10W 5% 1/10W |
| C112 1-124-903-11 C113 1-124-126-00 | CK RLECT 1MF RLECT 47MF | (V-W32MN11/MH11) 20% 50V 20% 16V (V-W32MN11/MH11) | R114 R115 R116 R117 | 1-216-099-00 1-216-097-00 | METAL GLAZE 120K METAL GLAZE 100K METAL GLAZE 680 | 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W |
| C114 1-163-005-11 | CERAMIC CHIP 470PF | 10% 50V (V-W32MN11/NH11) | | | | (KV-W32MN11/MH11) |
| C115 1-163-005-11 C116 1-124-126-00 | CERANIC CHIP 470PF ELECT 47MF | 10% 50V 20% 16V | | <tun< td=""><td></td><td>oran orango water series and series are series and series and series and series and series are series and series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series are series and series are series and series are series and series are series and series are series and series are series and series are series are series and series are series are series are seri</td></tun<> | | oran orango water series and series are series and series and series and series and series are series and series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series and series are series and series are series and series are series and series are series and series are series and series are series and series are series and series are series are series and series are series are series are seri |
| C117 1-163-251-11 C118 1-124-126-00 | CERANIC CHIP 100PF | KV-W32MN11/MH11) 5% 50V 20% 16V | TU 102/ | L 8-5 98 -270-00 | TUNER SE BTP-86421 TUNER ET BTP-86421 | (41-4320)11/1029 |
| C119 1-163-017-00 C120 1-163-001-11 C121 1-124-126-00 | CERAMIC CHIP 0.0047MF CERAMIC CHIP 220PF ELECT 47MF | 10% 50V 20% 16V | | | A BOARD, COMPLETE | |
| C122 1-163-005-11 | CERAMIC CHIP 470PF | KV-W32MN11/MH11) 10% 50V | | 4-382-854-11 | SCREW (M3X10), P, S | ₩ (+) |
| C123 1-124-126-00 C124 1-163-005-11 | | KV-W32MN11/MH11) 20% 16V 10% 50V | C001 | 1-126-204-11 | | 20% 16V |
| <00 | INNECTOR> | | C002 C003 C004 | 1-126-233-11 1-1 04- 664-11 1-164-161-11 | | 20% 50V 20% 25V 2MF 10% 50V |
| CN101 1-695-301-11 CN102 1-695-915-1 | CONNECTOR, BOARD TO BOATAB (CONTACT) | RD 40P | C005 | 1-124-126-00 | ELECT 47MF | 20% 16V |
| <0 | ODE> | | C006 C007 C008 C009 | 1-163-109-00 | CERAMIC CHIP 18PF CERAMIC CHIP 47PF CERAMIC CHIP 0.022 | 57 50V 57 50V 4F 50V |
| D101 8-719-119-2 | DIODE RD33F-T7B1 | | C010 | 1-163-017-00 | CERAMIC CHIP 0.004 | 7MF 10% 50V |

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The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

| SECRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION REMARK COLUMN DESCRIPTION REMARK COLUMN DESCRIPTION REMARK COLUMN DESCRIPTION REMARK COLUMN DESCRIPTION DESCRIPTION REMARK COLUMN DESCRIPTION DESCRIPTI | _ | } | | | | | | | | | | | |
|--|---|--------------------------------------|--|--|---|---------------------------------|----------------------------------|--------------------------------------|--|--|--|--------------------------|---------------------------------|
| 1-163-090-11 CERAMIC CHIP 0.0018F 101 50V C552 1-126-953-11 ELECT 22000F 201 35V C022 1-164-161-11 CERAMIC CHIP 0.1087 50V C552 1-162-161-11 CERAMIC CHIP 0.1087 50V C552 1-124-161-10 CERAMIC CHIP 0.1087 201 10V C552 1-164-161-11 CERAMIC CHIP 0.1087 201 10V C562 1-164-161-11 CERAMIC CHIP 0.1087 201 | | REF.NO. | PART NO. | DESCRIPTION | | • | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
| CO42 1-16-34-11 CRAMIC CHIP ATPF 5X 5V C659 1-126-936-11 ELECT 22MF 20X 50V C651 1-106-347-00 ELECT 22MF 20X 50V C651 1-106-347-00 ELECT 22MF 20X 50V C651 1-106-347-00 ELECT 22MF 20X 50V C652 1-106-347-00 ELECT 22MF 20X 25V C653 1-106-347-00 ELECT 22MF 20X 25V C653 1-106-347-00 ELECT 22MF 20X 25V C653 1-104-366-11 ELECT 22MF 22XV C653 1-104-366-11 ELECT 22MF | | C011 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V 16V | C653 | | | | | |
| CO42 1-164-346-11 CERANIC CHIP 1/97 107 507 6660 1-126-333-11 ELECT 22MF 22XT 507 1051 1-163-005-11 EERANIC CHIP 1/97 107 507 6660 1-126-335-11 ELECT 22MF 22XT 507 1051 1051 66661 1-106-347-10 MYLAK 0.0015/FF 10X 1007 1007 1007 1007 1007 1007 1007 | | C029 C037 C040 | 1-164-161-11 1-163-038-91 1-163-243-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.0022MF 0.1MF 47PF | 10% 5% | 50V 25V 50V | C654 C655 C656 C658 | 1-162-318-11 1-128-548-11 1-126-929-11 1-124-347-00 | CERAMIC ELECT ELECT ELECT | 0.001MF 4700MF 4700MF 100MF | 10% 20% 20% 20% | 25V 10V 160V |
| Comparison Com | | C041 C042 C057 C104 C105 | 1-163-243-11 1-164-346-11 1-124-902-00 1-163-005-11 1-124-126-00 | CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP ELECT | 47PF 1MF 0.47MF 470PF 47MF | 5% 20% 10% 20% | 50V 16V 50V 50V 16V | C659 C660 C661 C662 C663 | 1-126-233-11 1-126-233-11 1-102-030-00 1-106-347-00 1-104-666-11 | ELECT CERAMIC MYLAR ELECT | 22MF 330PF 0.0015MF 220MF | 20% 10% 10% 20% | 50V 500V 100V 25V |
| C307 1-169-037-11 CERANIC CHIP 0.072WF 10X 25V C3010 1-164-036-11 CERANIC CHIP 10.47WF 10V C311 1-164-036-11 CERANIC CHIP 1WF 16V C1205 1-164-005-11 CERANIC CHIP 1WF 16V C1205 1-164-005-11 CERANIC CHIP 1WF 10X 25V C1201 1-164-005-11 CERANIC CHIP 1WF 10X 25V C1201 1-164-005-11 CERANIC CHIP 0.1WF 20X 50V C1203 1-164-005-11 CERANIC CHIP 7WF 20X 50V C1203 1-163-005-11 CERANIC CHIP 7WF 10X 50V C1203 1-163-005-11 CERANIC CHIP 0.1WF 10X 25V C1203 1-164-004-11 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 25V C1203 1-163-005-10 CERANIC CHIP 0.047WF 10X 50V C1203 1-163-005-10 CERANIC CHIP 0.047WF 20X 50V C1203 1-163-005-10 CERANIC CHI | | C268 C269 C270 C271 C301 | 1-126-934-11 1-124-126-00 1-126-933-11 1-164-005-11 1-164-346-11 | ELECT ELECT ELECT CERAMIC CHIP CERAMIC CHIP | 220NF 47NF 100MF 0.47MF 1MF | 20% 20% 20% | 16V 16V 16V 25V 16V | C665 C667 C668 C669 | 1-124-903-11 1-164-645-11 1-164-645-11 1-164-645-11 | ELECT CERAMIC CERAMIC CERAMIC | 1MF 1000PF 1000PF 1000PF | 20% 10% 10% | 50V 500V 500V 500V |
| C330 1-164-366-11 CERANIC CHIP 1MF 16V C1205 1-164-222-11 CERANIC CHIP 0.2MF 25V C312 1-164-346-11 CERANIC CHIP 1MF 16V C1205 1-164-004-11 CERANIC CHIP 1MF 16V C1205 1-164-004-11 CERANIC CHIP 1MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 10X 50V C1201 1-163-005-11 CERANIC CHIP 10X 50V C1201 1-163-005-11 CERANIC CHIP 10X 50V C1201 1-163-005-11 CERANIC CHIP 40PF 10X 50V C1201 1-163-005-11 CERANIC CHIP 40PF 10X 50V C1201 1-163-005-11 CERANIC CHIP 40PF 10X 50V C1201 1-163-005-11 CERANIC CHIP 40PF 10X 50V C1201 1-163-005-11 CERANIC CHIP 40PF 10X 50V C1201 1-163-005-11 CERANIC CHIP 50V 50V C1201 1-163-005-11 CERANIC CHIP 60 CHIP 10X 50V C1201 1-163-005-11 CERANIC CHIP 60 CHIP 10X 50V C1201 1-163-005-11 CERANIC CHIP 60 CHIP 10X 50V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-164-004-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 0.1MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-005-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-131-00 CERANIC CHIP 90PF 52 50V C1201 1-163-131-00 CERANIC CHIP 90PF 52 50V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CHIP 0.0MF 10X 25V C1201 1-163-305-11 CERANIC CH | | C303 C304 C305 C306 | 1-164-346-11 1-164-346-11 1-163-038-91 1-126-934-11 1-163-037-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP | 1MF 1MF 0.1MF 220MF 0.022MF | 20% 10% | 16V 16V 25V 16V 25V | i | | | | | 25V 50V 50V 50V |
| C314 1-124-963-11 ELECT IMP 20X 50V C315 1-164-364-11 CERAMIC CHIP 0.33MF 10X 25V C316 1-164-364-11 CERAMIC CHIP 10 10X 25V C317 1-164-004-11 CERAMIC CHIP 0.1MF 10X 25V C318 1-164-004-11 CERAMIC CHIP 0.1MF 10X 25V C318 1-164-004-11 CERAMIC CHIP 0.1MF 10X 25V C318 1-164-004-11 CERAMIC CHIP 0.1MF 10X 25V C320 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C321 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 25V C322 1-163-809-11 CERAMIC CHIP 0.047MF 10X 50V C322 1-163-809-11 CERAMIC CHIP 0.01MF 10X 50V C322 1-163-909-10 CERAMIC CHIP 0.01MF 10X 50V C323 1-163-909-10 CERAMIC CHIP 0.01MF 10X 50V C324 1-163-909-10 CERAMIC CHIP 0.01MF 10X 50V C325 1-163-909-10 CERAMIC CHIP 0.01MF 10X 50V C326 1-163-96-11 CERAMIC CHIP 0.01MF 10X 50V C327 1-164-364-11 CERAMIC CHIP 1MF 16V C330 1-163-36-11 CERAMIC CHIP 0.02MF 20X 16V C331 1-163-96-11 CERAMIC CHIP 1MF 16V C331 1-163-251-11 CERAMIC CHIP 0.001MF 20X 16V C331 1-163-36-11 CERAMIC CHIP 0.001MF 20X 16V C331 1-163-36-11 CERAMIC CHIP 0.001MF 20X 16V C331 1-163-36-11 CERAMIC CHIP 0.001MF 20X 16V C331 1-163-231-11 C14-046-11 C14-0 | | C310 C311 C312 | 1-163-037-11 1-164-005-11 1-164-346-11 1-164-346-11 1-164-346-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.022HF 0.47MF 1MF 1MF 1MF | 10% | 25V 16V 16V 16V | C1205 C1206 C1207 | | | | | 25V 25V 25V 25V 50V |
| C320 1-163-809-11 CERAMIC CHIP 0.047MF 107 25V C1215 1-126-964-11 ELECT 10MF 207 50V C321 1-163-809-11 CERAMIC CHIP 0.047MF 107 25V C1221 1-163-131-00 CERAMIC CHIP 90PF 57 50V C322 1-163-809-11 CERAMIC CHIP 0.047MF 107 25V C1221 1-163-09-11 CERAMIC CHIP 90PF 57 50V C327 1-164-221-11 CERAMIC CHIP 0.01MF 107 50V C327 1-164-221-11 CERAMIC CHIP 0.01MF 107 50V C328 1-163-125-00' CERAMIC CHIP 10.01MF 107 50V C328 1-164-346-11 CERAMIC CHIP 1MF 107 107 107 107 107 107 107 107 107 107 | | C315 C316 C317 | 1-124-927-11 1-124-903-11 1-164-336-11 1-164-346-11 1-164-004-11 | ELECT ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 4.7MF 1MF 0.33MF 1MF 0.1MF | 207 207 107 | 50V 50V 25V 16V 25V | | | | | | 50V 50V 25V |
| C336 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 1MF 16V C1338 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1339 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1232 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 0.01MF 25V C603 1-124-463-00 ELECT 0.1MF 20% 50V C1233 1-163-031-11 CERAMIC CHIP 0.47MF 25V C605 1-136-481-11 FILM 0.0022MF 2% 50V C1238 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-164-005-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-164-005-11 CERAMIC CHIP 0.47MF 25V C609 1-136-165-00 FILM 0.1MF 5% 50V C1239 1-164-005-11 CERAMIC CHIP 0.47MF 25V C610 1-164-625-11 CERAMIC 680PF 10% 500V C1239 1-163-031-11 CERAMIC CHIP 0.47MF 25V C610 1-164-625-11 CERAMIC 680PF 10% 500V C1241 1-164-005-11 CERAMIC CHIP 0.47MF 25V C611 1-164-625-11 CERAMIC 680PF 10% 500V C1241 1-164-05-11 CERAMIC CHIP 0.47MF 25V C612 1-126-964-11 ELECT 10MF 20% 50V C1252 1-163-031-11 CERAMIC CHIP 0.02MF 5% 0V C1254 1-163-033-91 CERAMIC CHIP 0.047MF 10% 50V C1255 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 | | C320 C321 C322 | 1-164-004-11 1-164-004-11 1-163-809-11 1-163-809-11 1-163-809-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1MF 0.047MF 0.047MF 0.047MF | 102 102 102 102 102 | 25V 25V 25V 25V 25V | C1215 C1219 C1220 C1221 | 1-126-964-11 1-163-131-00 1-163-131-00 1-163-009-11 | ELECT CERAMIC CHI CERAMIC CHI CERAMIC CHI | 10MF P 390PF P 390PF P 0 001MF | 20% 5% 5% 10% | 50V 50V 50V 50V |
| C336 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 1MF 16V C1338 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1339 1-164-346-11 CERAMIC CHIP 1MF 16V C1231 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1232 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 100PF 5% 50V C1233 1-163-031-11 CERAMIC CHIP 0.01MF 25V C603 1-124-463-00 ELECT 0.1MF 20% 50V C1233 1-163-031-11 CERAMIC CHIP 0.47MF 25V C605 1-136-481-11 FILM 0.0022MF 2% 50V C1238 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-164-005-11 CERAMIC CHIP 0.001MF 10% 50V C1239 1-164-005-11 CERAMIC CHIP 0.47MF 25V C609 1-136-165-00 FILM 0.1MF 5% 50V C1239 1-164-005-11 CERAMIC CHIP 0.47MF 25V C610 1-164-625-11 CERAMIC 680PF 10% 500V C1239 1-163-031-11 CERAMIC CHIP 0.47MF 25V C610 1-164-625-11 CERAMIC 680PF 10% 500V C1241 1-164-005-11 CERAMIC CHIP 0.47MF 25V C611 1-164-625-11 CERAMIC 680PF 10% 500V C1241 1-164-05-11 CERAMIC CHIP 0.47MF 25V C612 1-126-964-11 ELECT 10MF 20% 50V C1252 1-163-031-11 CERAMIC CHIP 0.02MF 5% 0V C1254 1-163-033-91 CERAMIC CHIP 0.047MF 10% 50V C1255 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-031-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 0.047MF 10% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C1251 1-163-251-11 | | C327 C328 C329 C331 | 1-164-004-11 1-164-232-11 1-163-125-00 1-164-346-11 1-163-097-00 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1MF 0.01MF 220PF 1MF 15PF | 10% 10% 5% | 50V 50V 50V 16V 50V | C1225 C1226 C1227 C1228 | 1-126-233-11 1-124-126-00 1-126-933-11 1-164-222-11 | | | | 50V 16V 16V 25V |
| C603 1-124-463-00 ELECT 0.1MF 20% 50V C604 1-126-233-11 ELECT 22MF 20% 50V C605 1-136-481-11 FILM 0.0022MF 2% 50V C1238 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C607 1-127-530-11 ELECT (SOLID) 22MF 20% 50V C1238 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V C609 1-136-165-00 FILM 0.1MF 5% 50V C619 1-136-165-00 FILM 0.1MF 5% 50V C611 1-164-625-11 CERAMIC 680PF 10% 500V C611 1-164-625-11 CERAMIC 680PF 10% 500V C612 1-126-964-11 ELECT 100MF 20% 50V C1243 1-163-033-11 ELECT 22MF 20% 50V C613 1-107-910-11 ELECT 100MF 20% 50V C1252 1-163-031-11 CERAMIC CHIP 0.01MF 50V C615 1-137-219-11 FILM 0.015MF 5% 0 C616 1-137-219-11 FILM 0.015MF 5% 0 C616 1-137-219-11 FILM 0.015MF 5% 0 C616 1-137-219-11 FILM 0.015MF 5% 0 C616 1-137-219-11 FILM 0.015MF 5% 0 C617 1-104-760-11 CERAMIC CHIP 0.047MF 10% 25V C618 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C2003 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2004 1-163-053-11 CERAMIC CHIP 100PF 5% 50V C2004 1-163-251-11 CERAMIC CHIP 100P | | C338 C339 C601 | 1-164-346-11 1-164-346-11 1-164-346-11 1-164-346-11 1-137-479-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP FILM | O IMF O IMF O IMF O IMF IMF | 10% | 16V 16V 16V 16V 400V | C1230 C1231 C1232 C1233 | 1-163-137-00 1-163-251-11 1-163-251-11 | CERAMIC CHI CERAMIC CHI CERAMIC CHI CERAMIC CHI | P 680PF P 100PF P 100PF P 0.01MF | | 50V 50V 50V 50V |
| C609 1-136-165-00 FILM 0.1MF 5% 50V C610 1-164-625-11 CERAMIC 680PF 10% 500V C611 1-164-625-11 CERAMIC 680PF 10% 500V C612 1-126-964-11 ELECT 10MF 20% 50V C613 1-107-910-11 ELECT 10MF 20% 50V C614 1-165-127-11 CERAMIC 470PF 10% 500V C615 1-137-219-11 FILM 0.015MF 5% 0 C616 1-137-219-11 FILM 0.015MF 5% 0 C617 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C619 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C620 1-104-760-11 CERAMIC CHIP 0.047MF 10% 50V C7 | | C603 C604 C605 | 1-126-233-11 1-136-481-11 | ELECT FILM | 22MF 0.0022MF | 20% 2% 20% | 50V 50V 20V | C1235 C1238 C1239 C1240 | 5 1-164-005-11 1-163-009-11 1-163-009-11 1-164-005-11 | CERAMIC CHI CERAMIC CHI CERAMIC CHI CERAMIC CHI | P 0.47MF P 0.001MF P 0.001MF P 0.47MF | 10 7 | 25¥ 50¥ 50¥ 25¥ |
| C613 1-107-910-11 ELECT 100MF 20% 50V C1255 1-163-809-11 CERAMIC CHIP 0.047MF 10% 25V C614 1-165-127-11 CERAMIC 470PF 10% 500V C615 1-137-219-11 FILM 0.015MF 5% 0 C2001 1-124-126-00 ELECT 47MF 20% 16V C2003 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2004 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2004 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2005 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2005 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2005 1-163-251-11 CERAMIC CHIP 100PF 5% 50V C2005 1-164-346-11 CERAMIC CHIP 10PF | C609 C610 C611 | 1-136-165-00 1-164-625-1 1-164-625-1 |) FILM L CERAMIC L CERAMIC | 0.1MF 680PF 680PF | 5% 10% 10% | 50V 500V 500V | C1243 | 3 1-163-251-11 7 1-126-233-11 | CERAMIC CHI ELECT CERAMIC CH | IP 100PF 22MF IP 0.01MF | 20% | 50V 50V 50V 50V |
| C619 1-104-760-11 CERAMIC CHIP 0.047MF 107 50V C2009 1-164-346-11 CERAMIC CHIP 1MF 16V C620 1-104-760-11 CERAMIC CHIP 0.047MF 107 50V C2009 1-164-346-11 CERAMIC CHIP 0.047MF 107 50V C620 1-104-760-11 CERAMIC CHIP 0.047MF 107 50V C620 1-104-760-11 CERAMIC CHIP 0.047MF 107 50V C620 1-164-346-11 CERAMIC CHIP | | C615 C616 | 1-137-219-1 | I CERAMIC 1 FILM 1 FILM | 470PF 0.015MF 0.015MF | 5% 5% | 500 V 0 0 | C125 C200 C200 C200 | 5 1-163-809-1 1 1-124-126-0 3 1-163-251-1 4 1-163-251-1 | CERAMIC CH DELECT CERAMIC CH CERAMIC CH | 47MF 47MF IP 100PF IP 100PF | 20% 5% 5% | 16V 50V 50V |
| | | C619 C620 | 1-104-760-1 1-104-760-1 | 1 CERAMIC CHI 1 CERAMIC CHI 1 ELECT | P 0.047MF P 0.047MF 10MF | 10% 10% 20% | 50V 50V 50V | C200 C200 C201 | 5 1-163-251-1 9 1-164-346-1 0 1-163-038-9 | 1 CERAMIC CH 1 CERAMIC CH 1 CERAMIC CH | IP 1MF IP 0.1MF | 5% | 16V 25V |



| C2012 1-163-989-11 CERAMIC CHIP 0.033MF 10% 25V C2014 1-126-964-11 ELECT 10MF 20% 50V C2015 1-163-038-91 CERAMIC CHIP 0.1MF 25V C2016 1-126-964-11 ELECT 10MF 25V C2017 1-163-229-11 CERAMIC CHIP 12PF 5% 50V C2017 1-163-229-11 CERAMIC CHIP 12PF 5% 50V C2018 1-163-038-91 CERAMIC CHIP 0.1MF 25V C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-038-91 C2018 1-163-03 | |
|--|--|
| C2018 1-163-038-91 CERANIC CHIP 0.1MF 25V | |
| C2018 1-163-038-91 CERAMIC CHIP 0.1MF C2601 1-104-664-11 ELECT 47MF 20% 25V C2602 1-104-664-11 ELECT 47MF 20% 25V C2603 1-104-664-11 ELECT 47MF 20% 25V C2604 1-104-664-11 ELECT 47MF 20% 25V C2604 1-104-664-11 ELECT 47MF 20% 25V C2604 1-104-664-11 ELECT 47MF 20% 25V C2604 1-104-664-11 ELECT 47MF 20% 25V C2605 1-104-664-11 ELECT 47MF 20% 25V C2606 1-104-664-11 ELECT 47MF 20% 25V C2607 1-104-664-11 ELECT 47MF 20% 25V C2608 1-104-664-11 ELECT 47MF 20% 25V C2609 1-104-664-11 ELECT 47MF 20 | |
| C2605 1-104-664-11 ELECT 47MF 20% 25V <ferrite bead=""></ferrite> | |
| CONNECTOR> CONNECTOR> CONNECTOR> CONNECTOR> CONNECTOR 9P CN102 *1-764-512-11 PLUG, CONNECTOR 9P CN103 *1-764-509-11 PLUG, CONNECTOR (SMD) (1.5MM) 7P CN107 *1-564-512-11 PLUG, CONNECTOR 6P CN118 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P CN120 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P CN121 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P CN123 *1-564-511-11 PLUG, CONNECTOR 8P CN123 *1-564-511-11 PLUG, CONNECTOR 8P CN123 *1-564-506-11 PLUG, CONNECTOR 8P CN123 *1-564-508-11 CONNECTOR, BOARD TO BOARD 8P CN131 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P CN132 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN133 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN134 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN135 *1-564-508-11 PLUG, CONNECTOR 6P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN136 *1-564-508-11 PLUG, CONNECTOR 6P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN136 *1-564-508-11 PLUG, CONNECTOR 6P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN136 *1-564-508-11 PLUG, CONNECTOR 6P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN136 *1-564-508-11 PLUG, CONNECTOR 6P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN137 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN138 1-564-508-11 PLUG, CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN139 1-695-298-11 CON | |
| CN118 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P FB006 1-414-235-11 INDUCTOR, FERRITE BEAD FB007 1-414-235-11 INDUCTOR, FERRITE BEAD FB007 1-414-235-11 INDUCTOR, FERRITE BEAD FB008 1-414-235-11 INDUCTOR, FB008 1-414-235-11 INDUCTOR, FB008 1-414-235-11 INDUCTOR, FB008 1-414-235-11 IN | |
| CN123 *1-564-511-11 PLUG, CONNECTOR 8P CN128 *1-564-506-11 PLUG, CONNECTOR 3P CN131 1-764-608-11 CONNECTOR, BOARD TO BOARD 8P CN132 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN132 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P FB603 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UB FB608 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UB FB608 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UB | |
| CN133 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN134 1-695-298-11 CONNECTOR, BOARD TO BOARD 40P CN135 *1-564-508-11 PLUG, CONNECTOR 5P CN136 *1-564-509-11 PLUG, CONNECTOR 6P FB653 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB655 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FB650 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH FF660 1-410-397-21 FERRITE BEAD INDUCTOR 1.1UH | |
| CN137 1-695-298-11 CONNECTOR, BOARD TO BUARD 40P FB12U1 1-414-234-11 INDUCTOR, FERRITE BEAD CN601 1-766-964-11 PIN, CONNECTOR (PC BOARD) 6P | |
| <pilter></pilter> | |
| DO11 8-719-914-43 DIODE DAN202K FL1201 1-239-803-41 ENCAPSULATED COMPONENT | |
| D201 8-719-404-46 DIODE MA110 D202 8-719-914-42 DIODE DA204K D203 8-719-404-46 DIODE MA110 D203 8-719-404-46 DIODE MA110 D203 8-759-708-05 IC NIM78105A | |
| D301 8-719-914-43 D10DE DAN202K | |
| D304 8-719-914-45 D10DE DANZOZK | |
| D310 8-719-404-46 DIODE MA110 1C651 8-749-010-65 PHOTO COUPLER PC123FY2 1C652 8-759-420-19 IC AN1431T 1C1201 8-759-285-19 IC MSP3410TE-L 1C1201 8-759-708-08 IC MSP3410TE-L 1C1202 8-759-708-08 IC MJW78LOBA 1C1202 8-759-708-08 IC MJW78LOBA 1C202 8-759-285-20 IC TPU3040TE-L 1C202 8-759-285-20 IC TPU3040TE-L 1C202 8-759-285-20 IC TPU3040TE-L | |
| D603 8-719-979-58 DIDDE EGPIDD 1-251-256-11 SOCKET, IC; IC2001 D604 8-719-402-72 DIODE MA3180M-TX IC2002 8-759-288-09 IC MB81C1000A-80PSZ D605 8-719-402-72 DIODE MA3180M-TX IC2601 8-759-518-68 IC PQ12RF21 | |
| D606 8-719-402-72 D10DE MA3180N-TX | |
| D610 8-719-510-48 DIODE DIN2OR D611 8-719-510-48 DIODE DIN2OR D612 8-719-404-46 DIODE MAI10 D613 8-719-979-58 DIODE ECP10D D614 8-719-106-89 DIODE RD15M-B2 | |



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|---|-------------------------------|--|---|--|--------|----------------------------------|--|---|---|-------------------------|----------------------------------|--------|
| | | PART NO. | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
| | L002 | <011 1-408-609-41 | .> | 33UH | | Q1205 Q1206 Q1207 | 8-729-216-22 8-729-216-22 8-729-216-22 | TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR 2S. | A1162-G A1162-G A1162-G | | | |
| | L003 L101 L651 L652 | 1-408-404-00 1-408-417-00 1-412-525-21 1-412-525-21 | INDUCTOR INDUCTOR INDUCTOR INDUCTOR INDUCTOR | 33UH 3.9UH 47UH 10UH 10UH 10UH 10UH | | Q1208 Q1209 Q1210 Q2006 | 8-729-216-22 8-729-230-49 8-729-901-01 8-729-216-22 | TRANSISTOR 2S. TRANSISTOR 2S. TRANSISTOR DT. TRANSISTOR 2S. | A1162-0 C2712-Y C144EK A1162-0 | ; (G | | |
| | L653 L654 L655 L1202 | 1-412-525-21 1-412-525-21 1-412-525-21 1-408-417-00 | INDUCTOR INDUCTOR INDUCTOR INDUCTOR | 10UH 10UH 10UH 47UH 8.2UH | | BO01 | | ISTOR> | | | 1/10W | |
| | L1204 L1205 L2001 | 1-408-397-00 1-408-408-00 1-408-609-41 | INDUCTOR INDUCTOR INDUCTOR INDUCTOR | 10UH 10UH 10UH 47UH 8.2UH 1UH 8.2UH 33UH | | R002 R003 R004 R005 | 1-216-073-00 1-216-025-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 10K 100 1K 1K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | | | LINK> | | | R006 R007 | 1-216-065-00 1-216-057-00 1-216-065-00 | METAL GLAZE | 4.7K 2.2K 4.7K | 5% | 1/10W 1/10W 1/10W | |
| | | 1-532-686-21 | | | | R009 R010 | 1-216-057-00 1-216-025-00 | METAL GLAZE | | | 1/10W 1/10W | |
| | Q101 | <tra 8-729-901-01</tra | NSISTOR> TRANSISTOR DT | C144EK | | R011 R012 R013 | 1-216-025-00 1-216-025-00 1-216-049-00 | METAL GLAZE | 100 100 1K | 5% 5% | 1/10W 1/10W 1/10W | |
| | 0203 0204 0301 | 8-729-216-22 8-729-216-22 8-729-216-22 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | A1162-G A1162-G A1162-G | | R014 R015 | 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE | 1K 1K | 57 57 | 1/10W 1/10W | |
| | Q302 Q303 | 8-729-216-22 8-729-216-22 | TRANSISTOR 2S | A1162-G A1162-G | | R016 R017 R018 | 1-216-049-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE | 1K 1K 1K | 5% 5% | 1/10W 1/10W 1/10W | |
| | Q304 Q305 Q306 Q307 | 8-729-900-53 8-729-216-22 8-729-230-49 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | L114EK A1162-G C2712-YG | | R020 | 1-216-073-00 1-216-049-00 1-216-061-00 | METAL GLAZE | 10K 1K 3.3K | | 1/10W 1/10W 1/10W | |
| | Q308 Q309 Q310 | 8-729-230-49 8-729-216-22 8-729-900-53 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR DT | C144EK A1162-G A1162-G A1162-G A1162-G A1162-G C114EK A1162-G C2712-YG C2712-YG C2712-YG C114EK C114EK C114EK C114EK | | R022 R023 R024 R025 | 1.216.061.00 | MCTAI CIATE | 2 24 | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | 0311 0312 | 8-729-900-53 8-729-230-49 | TRANSISTOR DT TRANSISTOR 25 | CI14EK SC2712-YG | | R026 R027 | 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE | 1K 1K | 5% 5% | 1/10W 1/10W | |
| | Q313 Q314 Q315 Q316 | 8-729-230-49 8-729-230-49 8-729-900-53 8-729-900-53 | TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR D1 TRANSISTOR D1 TRANSISTOR D1 | SC2712-YG SC2712-YG FC114EK FC114EK | | R028 R029 R030 | 1-216-049-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1K 1K 1K | 5% | 1/10W 1/10W 1/10W | |
| | Q318 Q319 Q320 | 8-729-900-53 8-729-230-49 8-729-230-49 | TRANSISTOR DT TRANSISTOR 25 TRANSISTOR 25 | C2712-YG 6A1162-G C2114EK C2114EK C2712-YG 6C2712-YG C2114EK C2114EK C2114EK C2114EK C2114EK C2114EK C2114EK C2114EC C2112-YG C2712-YG C2712-YG C34162-G C34162-G C34162-G | | R032 R033 R034 R035 | 1-216-049-00 1-216-049-00 1-216-033-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 1K 220 100 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | 0321 0322 | 8-729-230-49 8-729-216-22 | TRANSISTOR 25 | 5C2712-YG 5A1162-G | | R036 | 1-216-295-00 1-216-033-00 | CONDCTOR, CHI | P 220 | | 1/10W | |
| | 9601 9602 9603 9604 | 8-729-216-22 8-729-216-22 8-729-216-22 8-729-230-49 | I TRANSPORT OF THE | 5A1162-G 5A1162-G 5A1162-G 5C2712-YG | | R038 R039 R040 | 1-216-089-00 1-216-039-00 1-216-065-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 47K 390 4.7K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W | |
| | 9605 9606 9607 | 8-729-028-10 8-729-028-10 8-729-119-78 | TRANSISTOR I | RF1744G-LF RF1744G-LF | | R041 R042 R043 R044 | 1-216-039-00 1-216-081-00 1-216-049-00 1-216-033-00 | METAL GLAZE | 390 22K 1K 220 ` | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | 9608 9611 9612 | 8-729-119-78 8-729-230-49 8-729-209-15 | TRANSISTOR 2 TRANSISTOR 2 | SC2785-HFE SC2712-YG | | R045 | 1-216-025-00 | METAL GLAZE | 100 390 | | 1/10W 1/10W | |
| | 9651 9652 9653 | 8-729-216-22 8-729-230-49 8-729-230-49 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SA1162-G SC2712-YG SC2712-YG | | R047 R048 R049 R050 | 1-216-049-00 1-216-025-00 1-216-025-00 1-216-121-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1K 100 100 1M | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | Q1201 Q1202 Q1203 | 8-729-230-49 8-729-230-49 8-729-230-49 8-729-216-22 | | SC2712-YG | | R051 R052 R053 | 1-216-049-00 1-216-699-11 1-216-049-00 | METAL CHIP METAL GLAZE | 1 K | 5% 0.50% 5% 5% | 1/10₩ | |
| | 412 04 | 8-729-216-22 | TRANSISTOR 2 | SA1162-G | | ¦ R055 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10₩ | |



| חוג ממס | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|--------------------------------------|--|---|--------------------------------------|----------------------------|---|--------|--|--|--|---|--|---|------------------|
| | | | | | | | | | | 1K | 5% | 1/10₩ | |
| R056 R057 R058 R059 R060 | 1-216-033-00 | | 1K 82K 220 1K 1K | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R352 R353 R354 R355 R356 R357 | 1-216-049-00 1-216-025-00 1-216-097-00 1-216-097-00 1-216-059-00 1-216-053-00 | METAL GLAZE METAL GLAZE METAL GLAZE | _ | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| R061 R062 R063 R064 R066 | 1-218-756-11 1-216-065-00 1-216-067-00 1-216-049-00 1-216-033-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 150K 4.7K 5.6K 1K 220 | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | | 1-216-053-00 1-218-753-11 1-216-699-11 1-216-043-00 | METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE | 1.5K 110K 100K | 5% 0.50% 0.50% | 1/10W 1/10W | |
| R071 R072 R102 R251 R252 | 1-216-049-00 1-216-071-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 1K 8.2K 27K 100K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R362 R601 R602 R603 R604 | 1-216-049-00 | METAL GLAZE CARBON CARBON METAL CHIP | 1M 1M | 5% 5% 0.50% | 1/4W 1/4W | |
| R253 R254 R301 R302 R303 | 1-216-097-00 1-216-097-00 1-216-043-00 1-216-059-00 1-216-067-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100K 100K 560 2.7K 5.6K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R605 R606 R607 R608 R609 R610 | 1-216-081-00 1-249-426-11 1-216-675-11 1-216-664-11 1-216-689-11 | METAL GLAZE CARBON METAL CHIP METAL CHIP | 22K 5.6K | 5% 5% 0.50% 0.50% | 1/10W 1/4W 1/10W 1/10W | |
| R304 R305 R306 R307 R308 | 1-216-055-00 1-216-039-00 1-216-097-00 1-216-031-00 1-216-067-00 | METAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE NETAL GLAZE | 1.8K 390 100K 180 5.6K | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R610 R611 R612 R613 R614 R615 | 1-216-073-00 1-216-660-11 1-208-800-11 1-249-420-11 1-216-073-00 | METAL GLAZE METAL CHIP METAL CHIP | 10K | 5% 5% 0.50% 0.50% 5% 5% | | |
| R309 R310 R311 R312 R313 | 1-216-059-00 1-216-065-00 1-216-043-00 1-216-043-00 1-216-043-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.7K 4.7K 560 560 560 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | i | 1-216-097-00 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON | 100K 47K 1K 10 10 22 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/8W 1/4W 1/4W | |
| R315 R316 R317 R318 R320 | 1-216-295-00 1-216-049-00 1-216-033-00 1-216-061-00 1-216-067-00 | CONDCTOR, CHI METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 1K 220 3.3K 5.6K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | | R621 R622 R623 R624 R626 R627 | 1-249-441-11 1-249-397-11 1-249-441-11 | CARBON CARBON CARBON | 100K 22 100K | 5% 5% | | F |
| R321 R322 R323 R324 R325 | 1-216-121-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R626 R627 R628 R629 R630 R631 R632 | 1-219-440-11 1-215-882-00 1-216-186-00 1-216-049-00 1-215-882-00 | METAL OXIDE METAL GLAZE METAL GLAZE METAL OXIDE | 22 330 1K 22 1K | 5% 5% 5% 5% | 2W 1/8W 1/10W 2W 1/10W | F |
| R326 R327 R328 R329 R330 | 1-216-025-00 1-216-043-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | | R633 R634 R635 | 1-216-105-00 | METAL GLAZE METAL OXIDE METAL CHIP METAL GLAZE | 1.8 2.2K 220K 220K 0.47 | 5% | 1/8W | - |
| | 1-216-051-00 1-216-065-00 1-216-025-00 1-216-073-00 1-216-089-00 | METAL GLAZE METAL GLAZE METAL GLAZE | | | 1/10W 1/10W 1/10W 1/10W 1/10W | | R651 R652 R653 R654 | 1-249-377-11 1-249-417-11 1-216-061-00 1-216-089-00 | CARBON METAL GLAZE METAL GLAZE | 220K 0.47 1K 3.3K 47K 1K | 57 57 57 57 57 57 57 57 | 1/4W 1/4W 1/10W 1/10W 1/10W | |
| R336 R337 R338 R339 R340 | 1-216-065-00 1-216-097-00 1-216-065-00 1-216-059-00 1-216-065-00 |) METAL GLAZE) METAL GLAZE) METAL GLAZE | 4.7K 100K 4.7K 2.7K 4.7K | 5% 5% 5% 5% | 1/10V 1/10V 1/10V 1/10V 1/10V | i i | R655 R656 R657 R658 R659 R660 | 1-216-049-00 1-216-049-00 1-216-073-00 1-216-059-00 1-249-422-1 1-249-437-1 | METAL GLAZE METAL GLAZE METAL GLAZE CARBON | 1K 10K 2.7K 2.7K 47K | 5% 5% 5% 5% 5% 5% | 1/100 1/100 1/100 1/4W 1/4W | W W F |
| R343 R344 R345 R346 R347 | 1-216-295-00 1-216-069-00 1-216-053-00 | O CONDCTOR, CI O METAL GLAZE O METAL GLAZE | HIP HIP 6.8K 1.5K 39 | 5% 5% 5% | 1/10 1/10 1/10 | W | R661 R662 R663 R664 R665 | 1-249-405-1 1-216-025-0 1-208-801-1 1-216-073-0 1-216-073-0 | CARBON METAL GLAZE METAL CHIP METAL GLAZE | 100 100 6.2K 10K 10K | 5% 0.50 5% | 1/4W 1/10 1/10 1/10 1/10 | F W W W |
| R348 R349 R350 R351 | 1-216-025-0 1-216-079-0 | O METAL GLAZE O METAL GLAZE | 1K 100 18K 1K | 5% 5% 5% | 1/10 1/10 1/10 1/10 | W W | R666 R667 R669 | 1-208-812-1 1-216-049-0 | 1 METAL CHIP | 18K 1K 1.5K | 0.50 5% | 7 1/10 1/10 1/10 |)G)G |

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The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

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|---|----------------------------------|--|--|------------------------------------|--|----------------------------------|---------|--------------------------------------|--|--|--|---|--------------------------|--|
| | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK | REF. NO. | PART NO. | | DESCRIPTION | | | REMARK |
| | R670 R671 | 1-249-377-11 1-249-377-11 | CARBON CARBON | 0.47 0.47 | 5% 5% | 1/4W 1/4W | F F | | *A-1331-3 | 91-A | C BOARD, COM | PLETE (KV-W28 ***** | BMN11/MI | H11) |
| | R672 R673 R674 | 1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11 1-249-377-11 | CARBON CARBON CARBON | 0.47 0.47 0.47 | 5% 5% 5% | 1/4W 1/4W 1/4W | r | | 4-382-85 | 4-11 | SCREW (M3X10 |), P, SW (+) | | |
| | R1200 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% 5% | 1/10W | | 1 | | <capa< td=""><td>CITOR></td><td></td><td></td><td></td></capa<> | CITOR> | | | |
| | R1201 R1202 R1204 R1205 | 1-216-033-00 1-216-033-00 1-216-051-00 1-216-057-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 220 220 1.2K 2.2K | 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | | C701 C703 C704 C711 C712 | 1-162-11 1-107-65 1-130-20 1-102-94 | 31-11 | ELECT | 0.0047MF 4.7MF 0.022MF 10PF 330PF | 20% 5% 0.5PF 5% | 2KV 250V 400V 50V 50V |
| | R1207 R1208 R1209 | 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1 K 330 1 K 12 K 2.7 K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | | | 1-102-82 1-102-82 1-126-93 | 24-00 20-00 33-11 | CERAMIC CERAMIC ELECT | 470PF 330PF 100MF | | 50V 50V 16V |
| | R1211 R1212 | 1-216-027-00 1-216-069-00 | METAL GLAZE | 120 6.8K 6.8K 120 | | 1/10W 1/10W | | | | <con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<> | NECTOR> | | | |
| | R1213 R1214 R1215 | 1-216-069-00 1-216-027-00 1-216-295-00 | METAL GLAZE METAL GLAZE CONDCTOR, CH | I P | | 1/10W 1/10W | | | | | PIN, CONNECT PLUG, CONNECTAB (CONTACT | |) 6P | |
| | R1216 R1218 | 1-216-065-00 1-216-295-00 | METAL GLAZE CONDCTOR. CH | 4.7K IP | 5% | 1/10W | | | | | | | | |
| | R1214 | 1-216-065-00 | METAL GLAZE | 4./K 1P | 26 | 1/10W | | | | <d10< td=""><td></td><td>_</td><td></td><td></td></d10<> | | _ | | |
| | R1222 | 1-216-295-00 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | l | D701 D702 | 8-719-9 8-719-9 | 11-19 11-19 | DIODE 188119 | 9 | | |
| | R1225 R1226 | 1-216-295-00 1-216-065-00 1-216-045-00 1-216-049-00 | METAL GLAZE METAL GLAZE | 1P 4.7K 680 1K 5.6K | 5% 5% | 1/10W 1/10W 1/10W | 4 | | | | DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 | | | |
| | R1228 | 1-216-067-00 | METAL GLAZE | 5.6K | 57 | 1/10% |) | D706 D707 | 8-719-9 | 11-19 | DIODE 1SS11 | 9 | | |
| | R1229 R1230 R2002 R2003 | 1-216-022-00 | METAL GLAZE METAL GLAZE | 47K 47K 75 1K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W |)) | D708 D709 D710 | 8-719-9 8-719-9 8-719-9 | 11-19 11-19 11-19 | DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 | 9 9 9 | | |
| | R2004 | 1-216-049-00 | METAL GLAZE | 1 K | | 1/10 | | D711 D712 | 8-719-9 | 11-19 | DIODE 18811 DIODE 18811 | 9 | | |
| | R2005 R2006 R2007 R2008 | 1-216-065-00 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 1 K 4.7 K 1 K 1 K | 5% 5% 5% 5% 5% 5% 5% | 1/100 1/100 1/100 1/100 | u) W | D/14 | 8-(19-1 | | DIODE RD7.5 CKET> | ESDZ | | |
| | R2009 | | | | | 1/10 | | J701 | <u> </u> | 23-11 | SOCKET, Plo | TURE TUBE | 7,0028 | And the second s |
| | R2017 R2018 | 1-216-033-00 | METAL GLAZE METAL GLAZE | 1K 220 | 5% 5% 5% 5% 5% | 1/10/ 1/10 | W | | | <00 | 71 \ | | | |
| | R2020 | 1-216-033-00 1-216-025-00 |) METAL GLAZE | 100 | 5% 5% | 1/10 1/10 | W | 1 701 | 5-410-4 | | | 22101 | | |
| | R2026 | 1-216-069-00 | METAL GLAZE | 6.8 | K 5% | 1/10 1/10 1/10 | ₩ ₩ | L703 L705 L707 | 1-408- | 412-00 | INDUCTOR INDUCTOR INDUCTOR INDUCTOR | 18UH 18UH 18UH | | |
| | R2027 | 1-216-069-00 1-216-097-00 |) METAL GLAZE | 6.8 | K 5% K 5% | 1/10 1/10 | | | | <tr< td=""><td>ANSISTOR></td><td></td><td></td><td></td></tr<> | ANSISTOR> | | | |
| | | ⟨₹ | RANSFORMER> | | | | | Q701 | 8-729- | 326-11 | TRANSISTOR | 2SC2611 | | |
| | T650 | A.1-426-970-1 | | COM | ERTER | (PIT) | | Q702 Q703 Q704 Q705 | 8-729- 8-729- 8-729- | 326-11 326-11 326-11 | TRANSISTOR TRANSISTOR TRANSISTOR | 2SC2611 2SC2611 2SC2611 | | |
| | | <0 | RYSTAL> | | | | | Q706 | 8-729- | 326-11 | TRANSISTOR | 2SC2611 | | |
| | X200 | 0 1-760-535 - 2 1 1-760-509-2 | 1 VIBRATOR, | CRYSTAL CRYSTAL | , | | | Q707 Q708 Q709 Q710 | 8-729- 8-729- | -200-1 -200-1 -200-1 -200-1 -119-7 | TRANSISTOR TRANSISTOR | 2SA1091-0 | | |
| | **** | ************** *A-1331-389- | -A C BOARD, C | OMPLETI | E (KV- | | | Q711 Q712 Q714 | 0770- | -110-71 | B TRANSISTOR B TRANSISTOR C TRANSISTOR | と 2502785ーほどと | | |
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The components identified by shading and mark A are critical for safety.
Replace only with part number specified.



| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | REMARK |
|--------------------------------------|--|--|-------------------------------------|-----------------------------|--------------------------------------|--|--|--|---|---|--|
| R701 | <res1< td=""><td>STOR></td><td>680K</td><td>20%</td><td>1/2₩</td><td></td><td>C2817 C2818 C2819 C2820</td><td>1-136-161-00 1-129-765-00 1-130-475-00 1-163-251-11</td><td>FILM FILM MYLAR CERAMIC CHIP</td><td>0.047MF 1 0.0022MF 5</td><td>% 50Y 0% 200V % 50V % 50Y</td></res1<> | STOR> | 680K | 20% | 1/2₩ | | C2817 C2818 C2819 C2820 | 1-136-161-00 1-129-765-00 1-130-475-00 1-163-251-11 | FILM FILM MYLAR CERAMIC CHIP | 0.047MF 1 0.0022MF 5 | % 50Y 0% 200V % 50V % 50Y |
| R702 | 1-202-838-00 1-202-813-00 1-216-367-11 1-249-420-11 | SOLID SOLID METAL OXIDE CARBON | 100K 22K 0.68 1.8K | 20% 20% 5% 5% | 1/2W 1/2W 2W 1/4W | F | C2821 C2822 C2823 C2824 | 1-136-157-00 1-136-177-00 1-126-935-11 1-124-126-00 | FILM FILM ELECT ELECT | 470MF 2 47MF 2 | % 50V % 50V 0% 16V 0% 16V |
| R708 R709 R710 R711 R712 | 1-249-420-11 1-249-420-11 1-215-922-11 1-202-549-00 1-215-922-11 | CARBON CARBON METAL OXIDE SOLID METAL OXIDE | 1.8K 1.8K 6.8K 100 6.8K | 57 57 57 207 57 | 1/4W 1/4W 3W 1/2W 3W | F F | C2825 | 1-124-126-00 1-164-232-11 | | 47MF 2 | ₩28MN11/MH11) ₩28MN11/MH11) ₩28MN11/MH11) ₩28MN11/MH11) |
| R713 R714 R715 R716 R717 | 1-202-549-00 1-215-922-11 1-202-549-00 1-249-405-11 1-249-405-11 | SOLID METAL OXIDE SOLID CARBON CARBON | 100 6.8K 100 100 100 | 20% 5% 20% 5% | 1/2W 3W 1/2W 1/4W 1/4W | F F | C2827 C2901 C2902 C2903 | 1-163-020-00 1-163-251-11 1-163-809-11 1-129-763-91 | CERAMIC CHIP CERAMIC CHIP FILM | 0.0082MF 1 100PF 5 0.047MF 1 0.033MF | 50% 50V 57 50V 10% 25V 10% 200V |
| R718 R720 R722 R724 R725 | 1-249-405-11 1-249-417-11 1-249-417-11 1-249-417-11 1-249-423-11 | | 100 1K 1K 1K 1K 3.3K | 5% 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W | F F F | C2907 C2908 C2916 C2918 C2922 C2924 | 1-129-704-91 | CERAMIC CHIE CERAMIC CHIE CERAMIC FILM | 0.01MF 0.01MF 220PF 0.0015MF | 50 50V 10% 50V 10% 50V 10% 50V 10% 630V |
| R726 R727 R728 R729 R730 | 1-249-423-11 1-249-421-11 1-249-408-11 1-249-408-11 1-249-408-11 | CARBON CARBON CARBON | 3.3K 2.2K 180 180 180 | 5% 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W | | C4800 | 1-136-161-00 1-126-952-11 1-164-232-11 1-126-964-11 | CERANIC CHI | 1000MF : | 57 50V 207 16V 107 50V 207 50V |
| R731 R732 R733 | 1-249-397-11 1-249-397-11 1-249-397-11 1-249-397-11 1-202-549-81 1-247-807-31 | CARBON | 22 22 22 100 | 5% 5% 5% 20% | 1/4W 1/4W 1/4W 1/2W 1/4W | e Solitor Gree s | CN280 | n 1_764_011_11 | HORIZONTAL CONNECTOR | BOARD TO BOARD PIN ASSY 3P BOARD TO BOARD | 10P 10P |
| R739 R740 R743 R747 R749 | 1-247-807-31 1-247-807-31 1-249-440-11 1-216-489-11 1-216-490-11 | CARBON CARBON CARBON METAL OXIDE METAL OXIDE | 100 100 82K 27K 39K | 5% 5% 5% 5% | 1/4W 1/4W 1/4W 3W | F F | CN580 | 1*1 -564- 518-11 OI | PLUG, CONNE | CTUR 3P | |
| R751 R753 R763 R765 R766 | 1-215-926-00 1-249-429-11 1-247-887-00 1-249-441-11 1-249-441-11 | METAL OXIDE CARBON CARBON CARBON | 33K 10K 220K 100K 100K | 57 57 57 57 | 3W 1/4W 1/4W 1/4W 1/4W | | D2803 D2804 D2805 D2806 | 8-719-510-64 8-719-911-19 8-719-911-19 | DIODE 18811 DIODE S2LA2 DIODE 18811 DIODE 18811 | 9 0 F 9 | |
| PV701 | <va< td=""><td>RIABLE RESISTO</td><td>DR> CTAL GL</td><td>AZE 2.</td><td>. 2M</td><td></td><td>D2808 D2808 D2809 D2902 D2903</td><td>8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19</td><td>DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11</td><td>9 9 9 9</td><td></td></va<> | RIABLE RESISTO | DR> CTAL GL | AZE 2. | . 2M | | D2808 D2808 D2809 D2902 D2903 | 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 | DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 DIODE 1SS11 | 9 9 9 9 | |
| RV704 RV705 | A 1-241-714-21 1-237-524-21 1-228-999-00 | RES, ADJ, CA | ARBON 1 ARBON 4 | 70K | J11 26 . F | 11 | D2904 D2905 D580 | 8-719-911-1 8-719-979-8 8-719-911-1 8-719-911-1 | DIODE 18811 DIODE EGP20 DIODE 18811 DIODE 18811 |)G L9 | |
| | *A-1341-842- | D1 BOARD, CO | OMPLETE | (KA- | W28MN11 | /MH11) | | <1 | C> | | |
| • | | A DI BOARD, CO | OMPLETE ****** | KV- | W32MN1: | L/MH11) | IC28 IC28 IC28 | 02 8-752-052-8 03 8-759-912-7 04 8-759-135-8 05 8-759-325-4 01 8-759-729-0 | 7 IC LM324N 10 IC UPC358C 18 IC CAOOO5A | (K D | V-W28MN11/MH11) V-W28MN11/MH11) |
| C280 C281 | 7 1-136-157-0 8 1-136-157-0 3 1-163-009-1 | O FILM 1 CERAMIC CHI | 0.02 0.02 P 0.00 | 2MF 1MF | 5% 5% 10% | 50V 50V 50V | 1029 | 03 8-759-729-0 01 8-759-603-3 | 3 IC NJM2903 | D . | |
| C281 C281 | 4 1-124-126-0 5 1-130-471-0 6 1-136-161-0 | O ELECT O MYLAR | 47MF 0.00 0.04 | 1MF | 20% 5% 5% | 16V 50V 50V | | <(| CONDCTOR CHIP> | | |

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| REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | - | | | REMARK |
| JR2905 | 1-216-295-00 | CONDCTOR, CHIP |)) | | | R2846 R2848 | 1-216-073-00 1-216-081-00 | METAL GLAZE METAL GLAZE | 10K 22K | 5% 5% | 1/10W 1/10W | |
| JR4903 | 1-216-295-00 | CONDCTOR, CHIR CONDCTOR, CHIR CONDCTOR, CHIR | , , , | | | R2850 R2851 R2852 | 1-216-081-00 1-216-073-00 1-216-085-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 22K 10K 33K | 5% 5% 5% | 1/10W 1/10W 1/10W | Apre 43 |
| | <011 | ,> | | | | R2852 | 1-216-073-00 | METAL GLAZE | 10K | (KA. | -W28MN11 1/10W | ./MH11) |
| L2801 | 1-406-664-21 | COIL, CHOKE 68 | BUH | | | | | 100m 11 C1 470 | 157 | (KV | -W32MN11 | /MH11) |
| L2802 L2907 | 1-406-989-21 1-406-674-11 | COIL, CHOKE 10 | HMME. HMME. | | | R2853 R2854 R2855 R2856 | 1-216-077-00 1-249-393-11 1-215-883-11 1-216-089-00 | CARBON METAL OXIDE METAL GLAZE | 10 33 | 5% 5% 5% 5% | 1/10W 1/4W F 2W F 1/10W | ; |
| | <tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td>1</td><td>1-216-097-00</td><td>METAL GLAZE</td><td>100K</td><td></td><td>1/10W</td><td></td></tra<> | NSISTOR> | | | | 1 | 1-216-097-00 | METAL GLAZE | 100K | | 1/10W | |
| Q2804 Q2805 Q2806 | 8-729-230-49 8-729-230-49 8-729-216-22 8-729-230-49 8-729-140-96 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | C2712-16 A1162-G C2712-YG | | | R2858 R2859 R2860 R2861 | 1-216-097-00 1-216-073-00 1-216-073-00 1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 10K 10K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| Q2809 Q2810 | 8-729-140-97 8-729-140-96 8-729-216-22 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | B734-34 D774-34 A1162-G | | | R2862 R2863 R2864 R2865 | 1-214-657-11 1-216-452-11 1-216-452-11 1-215-860-11 1-216-041-00 | METAL UXIDE | 180 33 | 1% 5% 5% 5% | 1/4W 2W] 2W] 1W] 1/10W | ₹ |
| Q2811 Q2812 | 8-729-140-97 8-729-015-02 | TRANSISTOR 2S TRANSISTOR 2S | | | | 02047 | 1-216-041-00 | | | | 1/10W | |
| 02813 | 8-729-216-22 | TRANSISTOR 2S | A1162-G | (KV-V | V28MN11/MH11) | R2868 | 1-216-061-00 | METAL GLAZE METAL GLAZE | 3.3K 4.7K | 5% 5% | 1/10W 1/10W | |
| Q2814 | 8-729-230-49 | TRANSISTOR 2S | C2712-Y6 | | 28MN11/HH11) | R2871 | 1-216-689-11 | METAL GLAZE | 39K | 5% (KV | 1/10W -W28MN1 | 1/MH11) |
| Q2901 | 8-729-216-22 | TRANSISTOR 2S | A1162-G | | | R2872 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W -W28MN1 | |
| 02906 | 8-729-230-49 | TRANSISTOR 25 | C2712-Y0 | i | | R2873 | 1-216-635-11 | METAL CHIP | 220 | 0.50% | 1/10W | |
| Q4904 Q5801 | 8-729-230-49 8-729-931-45 8-729-230-49 8-729-230-49 8-729-230-49 | TRANSISTOR 25 TRANSISTOR 25 | C2712-YC | | | R2874 | 1-216-675-11 | METAL CHIP | 10K | 0.502 | -W28MN1 1/10W | 1/MH11) |
| U 5802 | 0 (2) 250 17 | | C2112-10 | • | | ! | 1-216-675-11 | | | 0.507 | /-W28MN1 K 1/10W V-W28MN1 | |
| | | SISTOR> | | | 1 /10!! | R2876 | 1-216-647-11 | METAL CHIP | 680 | 0.502 | X 1/10W V-W28MN1 | |
| R2801 R2802 R2803 | | METAL GLAZE | 220 220 10K 47K 2.2 | 57 57 | 1/10W 1/10W 1/10W | R2877 | 1-216-675-11 | METAL CHIP | 10K | 0.505 | ¥ 1/10₩ | |
| R2804 R2806 | 1-216-089-00 | METAL GLAZE | 47K 2.2 | 5% 5% | 1/10₩ 1/8₩ | R2878 | 1-216-675-11 | METAL CHIP | 10K | 0.50 | V-W28MN1 7 1/10W | |
| R2807 | 1-216-134-00 | METAL GLAZE | | | 1/8₩ | R2879 | 1-260-095-11 | CARBON | | 5% (K | V-W28MN1 1/2W | 1/Mn11) |
| R2808 R2823 | 1-216-089-00 | METAL GLAZE METAL GLAZE | 2.2 330K 47K 56K | 57 57 0.507 | 1/10W 1/10W | pogen | 1-260-095-11 | CAPRON | 470 | 57 | 1/20 | (1/MB11) |
| R2824 R2825 | 1-208-824-11 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/100 | | 1-216-689-11 | | | (K | V-W28MN: 1/10W | 11/MB11) |
| R2831 | 1-216-049-00 | | 1 K 30 K | 5% 0.50% | 1/10W | 112001 | 1 210 007 11 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | (K | V-W28MN | 11/MH11) |
| R2832 R2833 | 1-216-691-11 | METAL CHIP | 47K | 0.50% | 1/10W | R2882 | 1-216-081-00 | METAL GLAZ | E 22K | 5% (K | 1/10W V-W28MN | 11/MH11) |
| R2834 R2835 | 1-216-295-00 1-216-057-00 | METAL GLAZE | | 5% | 1/10W | R2883 R2901 | 1-216-025-00 1-216-295-00 | CONDCTOR, | CHIP | 5% | 1/10W | |
| R2836 R2837 R2838 | 1-216-049-00 1-216-073-00 | | 1 K 10 K | 5% 5% | 1/10W 1/10W | R2902 | 1-216-057-00 | | | | 1/10W | |
| R2838 R2839 | 1-216-059-00 1-216-045-00 |) METAL GLAZE | 2.7K 680 | 5% 5% 5% 5% | 1/10W 1/10W | R2903 | 1-216-073-00 |) METAL GLAZ | E 10K | 5% | 1/10W 1/10W | |
| R2840 | 1-216-061-00 | | | | 1/10W | R2905 | 1-216-097-00 1-218-768-1 |) METAL GLAZ L METAL CHIF | 470 | 0.50 | 1/10W 2 1/10W | |
| R2841 | 1 1-216-081-00 |) METAL GLAZE | 22K | 5% (KV | 1/10W -W28MN11/MH11) | R2915 | 5 1-218-768-1 | | . | | 1/10W | |
| R2841 | 1 1-216-089-0 | METAL GLAZE | 47K | 5% | 1/10W -W32MN11/MH11) | R2916 | 7 1-216-121-0 | METAL GLAZ | E 1M | 5% 5% | 1/10W 1/10W | l |
| R2842 | 2 1-216-089-0 | | 47K | 5% | 1/10W | R2918 | 9 1-216-659-1 | 1 METAL CHII | 2.2 | (0.50 | 1/10W 07 1/10W | l |
| R284 R284 R284 | 3 1-216-105-0 4 1-216-077-0 5 1-216-089-0 | O METAL GLAZE | 220K 15K 47K | 5% 5% 5% | 1/10W 1/10W 1/10W | R293 | 3 1-216-682-1 | 1 METAL CHIR | 20K | | 0% 1/100 KV-W28MD | (11/MB11) |
| 4404 | 2 2 220 007 0 | | | | | • | | | | | | |

| D1 | VM | D |
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| REF. NO. PART NO. DESCRIPTION | | REMARK | REF.NO. | PART NO. | DESCRIPTION | 1 | | REMARK |
|---|---|------------------------------------|---|--|--|--|--------------------------------------|---------------------------|
| R2933 1-208-811-11 METAL CHIP 16K R2934 1-216-675-11 METAL CHIP 10K R2935 1-216-065-00 METAL GLAZE 4.71 R2936 1-220-262-11 METAL GLAZE 680 R2937 1-216-043-00 METAL GLAZE 560 | 0.50% 1/10W (KV-W32MN) 0.50% 1/10W 5% 1/10W 5% 1/4W | 11/MH11) | Q1701 Q1702 Q1703 Q1704 | <tram 8-729-119-78 8-729-119-76 8-729-017-05 8-729-017-06 8-729-017-06 8-729-119-78 8-729-142-86 8-729-119-78</tram | SISTOR> TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI | C2785-HFE A1175-HFE A1837 C2785-HFE | | |
| R4911 1-216-685-11 METAL CHIP 27K | 0.50% 1/10W | | Q1705 Q1706 Q1707 Q1708 Q1709 | 8-729-255-12 | TRANSISTOR 25 | C2785-HFE C3733 C2785-HFE C2551-0 | | |
| R4920 1-216-198-91 METAL GLAZE 1K R5801 1-216-073-00 METAL GLAZE 10K R5802 1-216-065-00 METAL GLAZE 4.7 R5803 1-216-065-00 METAL GLAZE 4.7 R5804 1-216-073-00 METAL GLAZE 10K R5805 1-216-081-00 METAL GLAZE 22K R5806 1-216-081-00 METAL GLAZE 22K R5807 1-216-081-00 METAL GLAZE 22K R5808 1-216-081-00 METAL GLAZE 22K | K 5% 1/10W 5% 1/8W 5% 1/10W K 5% 1/10W K 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W | | R1701 R1702 R1703 R1704 R1705 | 1-247-807-31 1-249-416-11 1-247-807-31 1-249-418-11 1-260-313-51 | CARBON CARBON CARBON CARBON CARBON CARBON | 100 5% 820 5% 100 5% 1.2K 5% 56 5% | 1/4W 1/4W 1/4W 1/4W 1/2W | |
| R5807 1-216-081-00 METAL GLAZE 22K R5808 1-216-081-00 METAL GLAZE 22K | 5% 1/10W 5% 1/10W | ****** | R1706 R1707 R1709 R1710 R1711 | 1-249-417-11 1-249-411-11 1-249-413-11 1-249-385-11 1-249-435-11 | CARBON CARBON CARBON CARBON CARBON | 1K 5% 330 5% 470 5% 2.2 5% 33K 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | F |
| *A-1342-258-A VM BOARD, COMPLET | E * | | R1712 R1713 R1714 | 1-249-436-11 1-249-436-11 1-249-429-11 | CARBON CARBON CARBON | 39K 5% 39K 5% 10K 5% | 1/4W 1/4W 1/4W 3W | F F |
| 4-382-854-11 SCREW (M3X10), P, CAPACITOR> C1701 1-126-940-11 ELECT 330N C1704 1-161-830-00 CERAMIC 0.0C C1705 1-126-934-11 ELECT 220N C1706 1-107-638-11 ELECT 33MI C1707 1-126-964-11 ELECT 10MI C1708 1-101-006-00 CERAMIC 0.0C C1709 1-129-702-00 FILM 0.0C C1710 1-162-318-11 CERAMIC 0.0C C1711 1-162-318-11 CERAMIC 0.0C C1712 1-107-667-11 ELECT 2.2I C1713 1-162-318-11 CERAMIC 0.0C C1714 1-106-367-00 MYLAR 0.0C C1714 1-106-367-00 MYLAR 0.0C C1714 0.0C | IF 20% 047MF IF 20% IF 20% | 16V 500V 16V 160V | R1717 R1718 R1719 R1720 R1721 | 1-249-435-11 1-249-412-11 1-249-417-11 1-249-417-11 1-249-417-11 | CARBON CARBON CARBON CARBON CARBON | 33K 5% 390 5% 1K 5% 1K 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | F |
| C1707 1-126-964-11 ELECT 10MI C1708 1-101-006-00 CERAMIC 0.0- C1709 1-129-702-00 FILM 0.00 C1710 1-106-367-00 MYLAR 0.0 C1711 1-162-318-11 CERAMIC 0.00 | 7 20% 47MF 11MF 10% 11MF 10% 11MF 10% | 50V 50V 630V 200V 500V | R1722 R1723 R1724 R1725 R1726 | 1-249-385-11 1-249-426-11 1-249-436-11 1-249-417-11 1-249-410-11 | CARBON CARBON CARBON CARBON CARBON | 5.6K 5% 39K 5% 1K 5% 270 5% | 1/4W 1/4W 1/4W 1/4W 1/4W | |
| C1712 1-107-567-11 ELECT 2.21 C1713 1-162-318-11 CERAMIC 0.0 C1714 1-106-367-00 MYLAR 0.0 C1715 1-102-973-00 CERAMIC 100 C1716 1-126-964-11 ELECT 10M C1718 1-126-934-11 ELECT 220 | 01MF 10% 1MF 10% PF 5% F 20% MF 20% | 500V 200V 50V 50V 16V | R1732 | 1-249-402-11 1-249-438-11 1-216-451-11 1-249-425-11 1-249-426-11 1-249-426-11 | CARBUN | 3.0K 36 | 1/4W 2W 1/4W 1/4W | ì |
| C1719 1-106-222-00 MYLAR 0.1 | | 100V | **** | ********* | ********* | ******* | | |
| <connector></connector> | • | | 1 | *A-1346-262-A | D BOARD, COM | PLETE (KV-W2 ***** | 8MN11/) | 相1) |
| CN1701*1-564-512-11 PLUG, CONNECTOR | 9P | | | *A-1346-266-A | D BOARD, COM | PLETE (KV-W3 ***** | 32MN11/1 | MR(1) |
| <diode></diode> | | | 1 | 4-037-121-01 4-382-854-11 | SPACER, NICA SCREW (M3X10 |), P, SW (+) |) | |
| 01701 8-719-911-19 DIODE 1SS119 01702 8-719-911-19 DIODE 1SS119 01703 8-719-911-19 DIODE 1SS119 | | | | <cà< td=""><td>PACITOR></td><td></td><td></td><td></td></cà<> | PACITOR> | | | |
| D1704 8-719-110-88 DIODE RD39ES-T18 D1705 8-719-110-88 DIODE RD39ES-T18 <coil></coil> | 3 | | C501 C502 C503 C504 | 1-124-903-11 1-124-903-11 1-123-024-21 1-163-005-11 | ELECT ELECT CERAMIC CHIR | 1MF 1MF 33MF 470PF | 20% 20% | 50V 50V 160V 50V |
| | 10UH | | C506 | 1-104-665-11 1-163-275-11 | ELECT CERAMIC CHI | 100MF 0.001MF | 20% 5% | 25V 50V |



The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

| Company Comp | REF.NO. | PART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK |
|--|----------------------|--|---------------------------------------|--|-------------------|-----------------------------|-------------------------|---|--|--------------------------|----------------------|--------------------------|
| 1-24-126-00 ELECT 4.78 | C509 | 1-124-927-11 | ELECT | 4.7MF | 20% | 50V | C2506 | 1-163-222-11 | CERAMIC CHIP | 5PF | 0.25PF | 50V |
| Signature Sign | C511 C512 | 1-124-126-00 1-106-379-12 1-124-927-11 | ELECT MYLAR ELECT | 47MF 0.033MF 4.7MF | 20% 10% 20% | 16V 20 0 V 50V | C2508 C2509 | 1-163-038-91 1-163-007-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP | 0.1MF 680PF 0.01MF | 10% 10% | 25V 50V 50V |
| C526 | C518 C519 C523 | 1-124-903-11 1-164-232-11 1-106-353-00 | CERAMIC CHIP | 0.01MF 0.0027MF | 20% 10% 10% | 50V 50V 100V | C2512 C2513 C3501 | 1-163-251-11 1-163-251-11 1-162-558-11 | CERAMIC CHIP CERAMIC CHIP CERAMIC | 100PF 100PF 100PF | 5% 5% 10% | 50V 50V 2KV |
| C529 1-16-00P-10 CERANIC CHIP 0.001MF | C525 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% 5% | | C3552 | 1-102-244-00 | CERAMIC | 220PF | 10% | 500Y |
| C529 | C527 C528 | 1-163-139-00 | CERAMIC CHIP | 820PF 0.0047MF | 10% | 50V 50V | ! | | | | 5% (KV-W28MN | 630V 11/5911) 420V |
| C539 | C529 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | | - | į | | | | (KV-W32MN | 11/MH11) |
| C557 1-110-630-11 FILM | C538 C539 C544 | 1-163-809-11 1-126-934-11 1-136-334-91 | CERAMIC CHIP ELECT FILM FILM | 0.047MF 220MF 0.033MF 0.019MF | 10% 20% | 25V 16V 630V | ł | | | | 20% 20% | 16V 16V |
| C557 1-110-630-11 FILM | C548 | 1-162-117-00 1-110-630-11 | CERAMIC FILM | 100PF 0.62MF | 52 | 400V | | <c01< td=""><td>INCTOR></td><td></td><td></td><td></td></c01<> | INCTOR> | | | |
| C557 -1-10-630-11 FILM | C551 C552 | 1-106-379-12 1-106-343-00 | MYLAR MYLAR FILM | 0.033MF 0.001MF 0.33MF | 10% 10% | 200V | CN502 | 1-764-607-11 1-764-607-11 | CONNECTOR, E | BOARD TO B | UARD 8P DARD 8P | |
| C564 1-107-228-00 CERAMIC 470PF 10X 500V CN506 1-764-812-11 CONNECTOR, BOARD 10F CN513 1-697-915-11 TAB (CONTACT) CN513 1-697-915-11 TAB (CONTACT) CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 11F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 11F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 11F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 10F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 10F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 10 BOARD 15F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CONNECTOR, BOARD 16F CN515 1-766-224-11 PIN. CON | C562 | 1-126-941-11 | ELECT | 470MF | 20% | 25V | CN504 | 1-764-818-11 | CONNECTOR. F | BOARD TO B | OARD 10P OARD 8P | |
| C557 1-102-328-00 CERAMIC C.0047MF C.0056MF C.0047MF C.0056MF C.0047MF C.0056MF C.0047MF C.0056MF C.0047MF C.0056MF C.0047MF C.0056MF | | 1-107-655-11 | ELECT | 47MF | 20% 10% | 250V 500V | CN508 | 1-764-812-11 1-695-915-11 | CONNECTOR, I | BOARD TO B () | OARD 10P OARD 11P | |
| C566 1-106-581-12 MYLAR 0.039MF 99% 200V CK516 1-764-607-11 CONNECTOR, BOARD TO BOARD SP CK517 1-764-607-11 CONNECTOR, BOARD TO BOARD SP CK517 1-764-607-11 CCN572 1-102-030-00 CERAMIC 0.047MF 10% 500V C575 1-103-030-00 CERAMIC CH1P 20PF 10% 500V C575 1-103-030-00 CERAMIC CH1P 20PF 10% 500V C575 1-163-001-11 CERAMIC CH1P 20PF 10% 20V C575 1-163-001-11 CERAMIC CH1P 20PF 10% 20V C576 A.1-162-1129-91 CERAMIC CF30PF 10% 20V C578 1-106-359-00 MYLAR 0.0047MF 10% 200V C579 A.1-162-116-91 CERAMIC CF30PF 10% 20V C580 1-103-024-21 ELECT 33MF 20% 20V C581 1-106-361-00 MYLAR 0.0056MF 10% 100V C581 1-106-361-00 MYLAR 0.0056MF 10% 100V C581 1-106-361-00 MYLAR 0.0056MF 10% 100V C581 1-124-024-11 ELECT 47MF 20% 50V C553 1-124-901-11 ELECT 470MF 20% 25V C555 1-124-901-11 ELECT 470MF 20% 25V C555 1-124-22-11 ELECT 470MF 20% 25V C555 1-106-382-10 CERAMIC CHIP 0.01MF 10% 50V D514 8-719-404-46 D10DE MA110 D528 8-719-404-46 D10DE MA110 D528 8-719-404-46 D10DE MA110 D528 C556 1-104-682-11 ELECT 470MF 20% 25V D514 8-719-404-46 D10DE MA110 D528 8-719-404-46 D10DE MA110 D528 8-719-404-46 D10DE MA110 D528 R-719-302-43 D10DE ELIZ D526 8-719-302-43 D10DE D528 8-719-302-43 D10DE ELIZ D526 8-719-302-43 D10DE ELIZ D526 8-719-302-43 D10DE ELIZ D526 8-719-302-43 D10DE ELIZ D526 8-719-302-43 D10DE D528 8-719-302-43 D10DE D528 8-719-302-43 D10DE D528 8-71 | C567 | 1-102-228-00 1-102-228-00 | CERAMIC | 470PF | 10% 10% | 500V | CN514 CN515 | 1-695-915-11 1-766-244-11 | PIN, CONNECT | ror (PC BO | ARD) 6P | |
| C574 1-106-383-00 MYLAR 0.047MF 10% 200V C576 1-163-001-11 CERAMIC CHIP 220PF 10% 50V C576 1-163-001-11 CERAMIC CHIP 20PF 10% 2KV C579 1-163-001-11 CERAMIC CHIP 20PF 10% 2KV C579 1-106-359-00 MYLAR 0.0047MF 10% 200V C580 1-123-024-21 ELECT 33MF 100V C582 1-124-126-00 MYLAR 0.0056MF 10% 100V C582 1-124-126-00 FILM 0.001MF 5% 50V C1551 1-124-903-11 ELECT 47MF 20% 50V C1554 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1557 1-102-942-00 CERAMIC CHIP 0.01MF 10% 50V C1559 1-106-383-00 MYLAR 0.002MF 10% 50V C1559 1-106-383-00 MYLAR 0.002MF 10% 50V C1559 1-106-383-00 MYLAR 0.007MF 10% 50V C1559 1-106-383-00 MYLAR 0.007MF 10% 50V C1550 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V C1550 1-16 | C569 | 1-106-381-12 | MYLAR ELEC T | 0.039MF 3.3MF | | 200V 250V | CN517 | 1-764-821-11 | CONNECTOR, I | BUARD TU B | UAKU 15P | |
| C575 1-163-001-11 CERAMIC CHIP 220PF 10% 50V C576 AL 1-162-129-91 CERAMIC 150PF 10% 2KV D502 8-719-404-46 D10DE MA110 D502 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D505 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 8-719-404-46 D10DE MA110 D504 B704 M110 D504 8-719-404-46 D10DE MA110 D505 8-719-404-46 D10DE | C572 C573 | 1-102-030-00 | CERAMIC | 0.47MF 330PF 0.047MF | 20% 10% 10% | 500V | | <di:< td=""><td>ODE></td><td></td><td></td><td></td></di:<> | ODE> | | | |
| C577 | CE7E | 1_162_001_11 | CEDAMIC CHIL | 220PF | 10% | 50V 2KV | D501 | 8-719-052-09 | DIODE FMG-3 | 6S-LF024-1 | 104 | |
| C581 1-106-361-00 NYLAK | C577 | A 1-162-116-91 | CERANIC MYLAR | 680PF 0.0047MF | 102 | 2KV 200V 2KV | D503 | 8-719-404-46 8-719-404-46 | DIODE MA110 DIODE MA110 | | | |
| C582 1-124-126-00 ELECT 47MF 20% 16V D509 8-719-403-02 D10DE MA3240M-TX D158 1-136-471-00 F1LM 0.001MF 5% 50V D511 8-719-404-46 D10DE MA110 D512 8-719-105-82 D10DE RD2. 0MB D513 1-126-941-11 ELECT 470MF 20% 25V D514 8-719-105-82 D10DE RD2. 0MB D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D515 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE D52RC D525 8-719-302-43 D10DE EL1Z D525 8-719-302-43 D10DE EL1Z D525 8-719-302-43 D10DE EL1Z D526 8-719-302-43 | C581 | 1-106-361-00 | MYLAK | U.UUDOMF | 102 | 1004 | סטכע ו | 8-719-404-46 8-719-914-44 | DIODE MA110 DIODE DAP20 | 2K | | |
| C1554 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D514 8-719-159-85 D100E M2.0MB D515 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D516 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE MA110 D517 8-719-404-46 D10DE M2.0MB D517 8-719-404-46 D10DE M2.0 | C1553 | 1 1-124-903-11 | ELECT | 1 194 1 | 206 | 201 | D509 D511 | 8-719-403-02 8-719-404-46 | DIODE MA324 DIODE MA110 | DM-TX | | |
| C1557 1-102-942-00 CERAMIC 5PF 50V D517 8-719-404-46 D10DE MA110 C1558 1-101-821-00 CERAMIC 0.0022MF C1559 1-106-383-00 MYLAR 0.047MF 10% 100V D522 8-719-045-42 D10DE DD52RC D1560 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D524 8-719-302-43 D10DE EL1% D525 8-719-302-43 D10DE EL1% D525 8-719-302-43 D10DE EL1% D526 8-719-302-43 D10DE EL1 | C155 | | | P 0.01MF | 10% | 50V | D515 | 8-719-404-46 | DIODE MA110 | | | |
| C1560 1-164-232-11 CERAMIC CHIP O.01MF 102 50V D524 8-719-302-43 D10DE EL1Z C1562 1-137-423-11 MYLAR 0.15MF 102 100V D526 8-719-302-43 D10DE EL1Z C1563 1-126-941-11 ELECT 470MF 202 25V D527 8-719-302-43 D10DE EL1Z C1564 1-136-853-11 FILM 0.56MF 52 200V D528 8-719-302-43 D10DE EL1Z C1595 1-136-177-00 FILM 1MF 52 50V D528 8-719-302-43 D10DE EL1Z C2501 1-104-665-11 ELECT 100MF 202 25V D529 8-719-908-03 D10DE GP08D C2502 1-164-232-11 CERAMIC CHIP 0.01MF 102 50V D531 8-719-908-03 D10DE GP08D C2503 1-164-232-11 CERAMIC CHIP 0.01MF 102 50V D531 8-719-908-03 D10DE GP08D C2504 1-104-665-11 ELECT 100MF 202 25V D536 8-719-404-46 D10DE MA110 | C155 C155 C155 | 7 1-102-942-00 | CERAMIC CERAMIC | 5PF 0.0022MF | 0.5PF | 50V 500V | D517 | 8-719-404-46 | DIODE MAILO |) | | |
| C1564 1-136-853-11 FILM 0.56MF 5% 200V D528 8-719-302-43 D10DE EL1Z C1595 1-136-177-00 FILM 1MF 5% 50V D529 8-719-908-03 D10DE GP08D C2501 1-104-665-11 ELECT 100MF 20% 25V D530 8-719-018-82 D10DE RGP02-20EL-6394 C2502 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D531 8-719-908-03 D10DE GP08D C2503 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D535 8-719-105-82 D10DE RD5.1M-B2 C2504 1-104-665-11 ELECT 100MF 20% 25V D536 8-719-404-46 D10DE MA110 | C156 | 0 1-164-232-11 | CERAMIC CHI | P 0.01MF | 10% | 50V | D524 D525 | 8-719-302-43 | B DIODE EL1Z | | | |
| C2501 1-104-665-11 ELECT 100MF 20% 25V D529 8-719-908-03 D10DE GP08D D520 8-719-908-03 D10DE GP08D D530 8-719-908-03 D10DE GP08D D530 8-719-908-03 D10DE GP08D D530 8-719-908-03 D10DE GP08D D530 8-719-105-82 D10DE RD5.1M-B2 D530 8-719-404-46 D10DE MA110 D530 8-719-404-46 | C156 | 3 1-126-941-11 4 1-136-853-11 | ELECT. Film | 470MF 0.56MF | 20% | 25V 200V | D526 D527 D528 | 8-719-302-43 | B DIODE ELIZ B DIODE ELIZ | | | |
| C2503 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D535 8-719-105-82 DIODE RD5.1M-B2 C2504 1-104-665-11 ELECT 100MF 20% 25V D536 8-719-404-46 DIODE MAI10 | C250 | 1 1-104-665-11 | ELECT | 100MF | 20% | 25V | D529 D530 | 8-719-018-8 | 2 DIODE RGPO | 2-20EL-639 | 4 | |
| | C250 | 13 1-164-232-11 14 1-104-665-11 | CERAMIC CH | IP 0.01MF 100MF | 10% 20% | 50Y | D536 | 8-719-105-8 | 2 DIODE RD5. | 1M-B2 | | |



| REF.NO. PART NO. | | REMARK | REF. NO. | PART NO. | DESCRIPTION | | REMARK |
|---|---|--------|---|--|--|--|---|
| D570 8-719-110-76 D571 8-719-404-46 D1551 8-719-923-86 D1557 8-719-908-03 D2501 8-719-914-43 | DIODE RD33ESB1 DIODE MAI10 DIODE MTZJ-T-77-15 DIODE GPORD DIODE DAN2O2K DIODE DA2O4K DIODE MA3O47M-TX DIODE MA3O47M-TX DIODE ERA38-06 DIODE RU-3AM | | Q1552 Q2501 Q2503 Q2504 Q2505 | 8-729-030-45 8-729-230-49 8-729-230-49 8-729-216-22 8-729-216-22 | TRANSISTOR IRF TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA TRANSISTOR 2SA | TIBC30G-LF 2712-YG 2712-YG 1162-G 1162-G | |
| D2503 8-719-914-42 D2504 8-719-401-32 D2505 8-719-401-32 D3550 8-719-970-87 | DIODE DA204K DIODE MA3047M-TX DIODE MA3047M-TX DIODE ERA38-06 | | Q2506 Q3550 | 8-729-216-22 8-729-011-06 | TRANSISTOR 2SA TRANSISTOR 2SC | 1162-G 3840K | |
| D3551 8-719-300-33 | DIODE RU-SAN | | | | | | |
| <pre><pe< pre=""></pe<></pre> | RRITE BEAD> | | R501 R502 R503 R504 | 121420500 | METAL CONDCTOR, CHIP METAL GLAZE METAL GLAZE | 390K 5% | |
| FRE02 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 1.1UH | | R504 | 1-216-057-00 | METAL GLAZE | 2.2K 5% | 1/10W EV-W32MN11/MH11) |
| <10 | > | | R506 R507 | 1-215-909-11 1-216-037-00 1-216-691-11 | METAL OXIDE METAL GLAZE | 47 5% 330 5% | 3W F 1/10W 0% 1/10W |
| 1C502 8-759-083-85 1C507 8-759-981-65 1C1551 8-759-192-71 1C2501 8-759-729-03 1C2502 8-759-729-03 | IC STV9379 IC NJM2903D | | R509 R510 R512 R513 R514 | 1-216-667-11 1-216-683-11 1-216-650-11 1-215-476-00 1-216-097-00 | METAL CHIP METAL CHIP METAL | | 0% 1/10W 0% 1/10W |
| 1C4601 8-759-189-48 1C4602 8-759-701-59 | IC PQ12RE11 IC NJM78MO9FA INDCTOR CHIP> | | R515 R516 R517 R518 R519 | 1-216-073-00 1-220-317-91 1-216-385-11 1-216-073-00 | METAL GLAZE METAL GLAZE METAL OXIDE | 10K 5Z 220K 5Z 0.47 5Z 10K 5Z 10K 5Z | 1/10W 1/4W 3W F 1/10W |
| JR1 1-216-295-00 JR501 1-216-295-00 JR503 1-216-295-00 JR510 1-216-295-00 | CONDCTOR, CHIP CONDCTOR, CHIP CONDCTOR, CHIP | | R520 R521 R522 R523 | 1-215-909-11 1-216-081-00 1-216-081-00 1-216-065-00 | METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 47 5% 22K 5% 22K 5% 4.7K 5% 15K 5% | 3W F 1/10W 1/10W 1/10W 1/10W |
| <pre></pre> | OIL> COIL, CHOKE 100UR COIL, AIR CORE COIL (WITH CORE) INDUCTOR 100UH INDUCTOR 100UH COIL, DRAM CORE (CDI) NOUCTOR 18UH COIL, CHOKE 18.5UH INDUCTOR 2.2MMH | | R525 R526 R527 R528 R529 | 1-216-085-00 1-216-049-00 1-216-057-00 1-216-675-11 1-216-683-11 | METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP | 33K 5% 1K 5% 2.2K 5% 10K 0.5 22K 0.5 | 1/10W 1/10W 1/10W 1/10W 50% 1/10W |
| L511 1-412-537-3 L512 1-412-537-3 L513 1-459-111-0 L514 1-412-528-1 L516 1-411-188-1 | 1 INDUCTOR 1000H 1 INDUCTOR 1000H 0 COIL, DRAM CORE (CDI) 1 INDUCTOR 18UH 1 COIL, CHOKE 18.5UH | | R530 R531 R532 R533 R535 | 1-216-065-00 1-216-097-00 1-214-753-00 1-202-830-00 1-202-830-00 | METAL SOLID SOLID | | 1/2W 1/2W |
| L517 1-412-552-1 L519 1-422-613-1 L1551 1-412-532-1 L1552 1-412-524-1 L1553 1-412-532-1 | 1 COIL AIR CORE | | R536 R537 R538 | 1-216-081-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 2.2K 5% 22K 5% | 50% 1/10W 1/10W 1/10W (KV-W28MN11/MH11) 1/10W |
| L3550 1-406-672-1 | 1 COIL, CHOKE 1.5MMH | | | | | .m 59 | (KV-W32MN11/MH11) 1/10W |
| Q501 8-729-900-5 | TRANSISTOR> | | R539 R540 R541 R542 | 1-216-434-1 1-216-077-0 | O METAL GLAZE 1 METAL OXIDE 0 METAL GLAZE 0 METAL GLAZE | 47 57 1.8K 57 15K 57 47K 57 | 1W F 1/10W 1/10W |
| Q502 8-729-901-(Q506 8-729-200-) Q507 8-729-230-) Q508 8-729-230-) | 11 TRANSISTOR DTC144EK 17 TRANSISTOR 2SA1091-0 49 TRANSISTOR 2SC2712-YG 49 TRANSISTOR 2SC2712-YG 45 TRANSISTOR IRF614 | | R543 R544 R545 R546 R547 | 1-216-345-1 1-249-377-1 1-249-377-1 | 1 METAL OXIDE 1 CARBON 1 CARBON | 3.3K 57 0.47 57 0.47 57 0.47 57 2.2K 57 | 1/10W 1W F 1/4W F 1/4W F 1/10W |
| 0512 8-729-119- 0514 8-729-017- | 80 TRANSISTOR 2SC2688-LK 64 TRANSISTOR 2SC3997-YB 22 TRANSISTOR 2SA1162-G 49 TRANSISTOR 2SC2712-YG | | R548 R549 R550 | 1-216-677-1 | 1 METAL CHIP | 27 5 | .50% 1/10W % 1/4W F % 1/10W |

D D2

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

| REF.NO. P | ART NO. | DESCRIPTION | | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|--|--|-------------------------------------|--|---|------------|--|--|--|---------------------------------------|--|---|-------------------|
| R553 1 R554 1 | -208-812-11 -208-812-11 -249-377-11 -216-679-11 -216-687-11 | METAL CHIP METAL CHIP CARBON METAL CHIP METAL CHIP | 18K 0.47 15K | 0.50% 0.50% 5% 0.50% 0.50% | 1/10W 1/4W 1/10W | F . | R2515 R2516 R2517 R2518 R2522 | 1-208-801-11 1-216-033-00 1-216-033-00 1-216-033-00 1-216-049-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 6.2K 220 220 220 1K | 0.50% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| R557 1 R558 1 R559 1 R560 1 | -216-077-00 -216-071-00 -216-651-11 -216-662-11 1-216-061-00 | METAL GLAZE | 1K ,3K 3.3K | 5% 0.50% 0.50% 5% | 1/10W | | R2523 R2525 R2527 R2528 R2529 R2532 | 1-216-025-00 1-216-295-00 1-216-025-00 1-216-083-00 1-216-073-00 | METAL GLAZE CONDCTOR, CHI METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 P 100 27K 10K 470K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R564 1 R565 1 R566 1 R567 1 | 1-216-075-00 1-216-683-11 1-216-481-11 1-215-918-00 1-216-689-11 | METAL GLAZE METAL CHIP METAL OXIDE METAL OXIDE METAL GLAZE | 22K 1.2K 1.5K 39K | 0.50% 5% 5% 5% | | F | R2532 R2533 R2534 R2536 R2537 R2538 | 1-216-113-00 1-216-057-00 1-216-057-00 1-216-659-11 1-216-683-11 1-216-099-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP METAL CHIP METAL GLAZE | 2.2K 2.2K 2.2K 2.2K 120K | 5% 5% 0.50% | 1/10W 1/10W | |
| R569 R576 R577 R578 | 1-216-037-00 1-216-061-00 1-249-423-11 1-216-115-00 1-216-097-00 1-247-893-11 | METAL GLAZE CARBON METAL GLAZE | 330 3.3K 3.3K 560K 100K | | 1/10W 1/4W 1/10W 1/10W 1/10W | F | R2539 R2540 R2545 R2545 R2546 R2547 | 1-216-683-11 1-216-073-00 1-216-025-00 1-216-025-00 1-216-049-00 | METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 22K 10K 100 100 | | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| R580 R582 R583 R584 | 1-216-075-00 1-214-902-81 1-216-674-11 1-215-923-00 1-202-883-11 | METAL GLAZE METAL METAL CHIP METAL OXIDE SOLID | 10K 680K | 12 0.502 52 202 | 1/10W 1/2W 1/10W 3W | F | R2549 R2550 R3550 R3551 R3552 | 1-216-025-00 1-216-049-00 1-216-483-11 1-216-483-11 1-216-439-00 | METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE | 100 1K 2.7K 2.7K 12K | 5% 5% 5% 5% | 1/10W 1/10W 3W 3W 1W | F |
| R586 R587 R588 R589 | 1-208-812-11 1-216-057-00 1-216-061-00 1-215-905-11 1-216-381-11 | METAL CHIP METAL GLAZE METAL GLAZE METAL OXIDE | 18K 2.2K 3.3K 10 | 0.50% 5% 5% 5% | 1/10W 1/10W 1/10W 3W | F | R3553 R3554 R3555 R3557 | 1-220-313-11 1-220-313-11 1-220-313-11 1-216-483-11 | | 100K 100K 100K 2.7K | 5% 5% 5% | 1/4W 1/4W 1/4W 3W | F |
| R591 R592 R593 R595 | 1-216-081-00 1-216-065-00 1-215-437-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL METAL GLAZE | 0.22 22K 4.7K 4.7K 1K | | 1/10W 1/10W 1/4W 1/10W | | İ | <va 1-241-763-11</va | RIABLE RESISTO RES, ADJ, CE | | .7K | | |
| R598 | 1-216-393-00 1-215-914-11 1-216-025-00 1-216-089-00 1-216-079-00 | METAL GXIDE METAL GLAZE METAL GLAZE | 2.2 330 100 47K 18K | 5% 5% 5% 5% | 3W 1/10W 1/10W 1/10W | | \$501 \$502 | 1-572-707-11 | ITCH> SWITCH, LEVE SWITCH, LEVE | CR CR | | | |
| R1561 | 1-20& 803-11 1-216-089-00 1-216-049-00 1-215-459-00 1-249-385-11 | METAL GLAZE METAL GLAZE METAL | 7.5K 47K 1K 39K 2.2 | 0.50% 5% 5% 1% 5% | 1/10W 1/10W 1/10W 1/4W 1/4W |) } | SG501 | <sp 1-519-422-11</sp | ARK GAP> GAP, SPARK | | | | |
| R1564 R1565 R1566 R1567 R1570 | 1-216-376-00 1-216-392-11 1-215-913-11 1-216-061-00 1-216-057-00 | METAL OXIDE METAL GLAZE | 3.9 1.8 220 3.3K 2.2K | 5% 5% 5% 5% | 2W 3W 3W 1/100 1/100 | | 7501 7502 7503 7504 | 1-427-835-11 1-427-762-1 1-453-150-1 | TRANSFORMER TRANSFORMER TRANSFORMER | . 4551, | TE JE | Λ (Ω | |
| R1595 R1596 R2501 R2503 R2505 | 1-216-664-11 1-216-674-11 1-216-083-00 1-216-075-00 1-216-069-00 | METAL CHIP METAL GLAZE METAL GLAZE | 3.6K 9.1K 27K 12K 6.8K | 0.50% 5% 5% | 1/100 1/100 1/100 1/100 1/100 | | 13550 | 1-426-896-1 | I TRANSPURMER | , rekki ******* Ompleti | :::::::::::::::::::::::::::::::::::::: | 1/ | |
| R2506 R2507 R2508 R2509 R2510 | 1-208-785-1 1-216-057-0 1-216-655-1 1-216-083-0 1-216-057-0 | O METAL GLAZE 1 METAL CHIP O METAL GLAZE | 1.5K 27K | 5% 0.50 5% | % 1/10 1/10 % 1/10 1/10 1/10 | ₩ . ₩ | C650 C650 | 1 1-163-020-0 | APACITOR> O CERAMIC CHI 1 CERAMIC CHI | P 0.1M | H . | 10% | 50V 25V |
| R2511 R2512 R2513 R2514 | 1-216-065-0 | O METAL GLAZE O METAL GLAZE | 1 K | (5% 5% (5% (0.50 | 1/10 1/10 1/10 1/10 2 1/10 | ₩ ₩ | C650 C650 C650 | 3 1-164-005-1 4 1-163-038-9 | 1 CERAMIC CHI | P 0.47 | MF F | | 16V 25V 25V |

| D2 | H3 | H1 |
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| REF.NO. PART NO. | DESCRIPTION | REMARK | REF.NO. PART NO. | DESCRIPTION | REMARK |
|--|---|---|--|--|---|
| C6506 1-124-126-00 C6507 1-164-004-11 C6508 1-163-038-91 C6509 1-163-011-11 C6511 1-163-031-11 | CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0015MF | 20% 16V 10% 25V 25V 10% 50V 50V | R6523 1-216-065-00 R6524 1-216-073-00 R6525 1-216-657-11 R6526 1-216-085-00 R6527 1-216-025-00 | METAL GLAZE 4.7% METAL GLAZE 10K METAL CHIP 1.8% METAL GLAZE 33K METAL GLAZE 100 | (5% 1/10W 5% 1/10W (0.50% 1/10W 5% 1/10W 5% 1/10W |
| C6513 1-164-161-11 C6514 1-164-161-11 C6515 1-163-009-11 C6516 1-163-009-11 C6517 1-164-222-11 | CERAMIC CHIP 0.0022MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF | 10% 50V 10% 50V 10% 50V 10% 50V 25V | į. | METAL CHIP 2.2 | (0.50% 1/10W |
| C6518 l-164-161-11 C6519 l-163-037-11 C6520 l-162-568-11 C6521 l-163-031-11 C6522 l-163-009-11 | CERAMIC CHIP 0.022MF CERAMIC CHIP 0.33MF | 10% 50V 10% 25V 10% 16V 50V 10% 50V | | *********** | E (KV-W32MN11/MH11) |
| C6523 1-164-161-11 | CERAMIC CHIP 0.0022MF | 10% 50V | <cai< td=""><td>PACITOR></td><td></td></cai<> | PACITOR> | |
| <con< td=""><td>NECTOR></td><td></td><td>C1931 1-124-126-00</td><td>ELECT 47MF</td><td>20% 16V</td></con<> | NECTOR> | | C1931 1-124-126-00 | ELECT 47MF | 20% 16V |
| CN6501 1-764-814-11 | CONNECTOR, BOARD TO BOAR | D 15P | <001 | NNECTOR> | |
| <10 | • | | CN1931*1-564-506-11 | PLUG, CONNECTOR 3 | P |
| IC6501 8-759-708-05 IC6502 8-759-251-48 | IC UPD358GR-EI | | <10 | > | |
| 1 C6503 8-752-347-92 1 C6504 8-759-251-48 | IC CXD2018Q IC UPD358GR-E1 | | IC1931 8-741-790-11 | IC SBX1790-11 | |
| < C 0! | NDCTOR CHIP> | | <re< td=""><td>SISTOR></td><td></td></re<> | SISTOR> | |
| JR6501 1-216-295-00 JR6506 1-216-295-00 | CONDCTOR, CHIP | | R1931 1-247-807-31 | | |
| J#0500 1-210-255 OU | COMPCION, CHII | | i | | ************ |
| <00 | | | 1 | *********** | |
| L6501 I-408-409-00 L6502 I-408-409-00 | INDUCTOR 10UH INDUCTOR 10UH | | *A-1372-070-A | H1 BOARD, COMPLET | TE (KV-W32MN11/MH 1) |
| <tr< td=""><td>ANSISTOR></td><td></td><td><cr></cr></td><td>NNECTOR></td><td></td></tr<> | ANSISTOR> | | <cr></cr> | NNECTOR> | |
| Q6502 8-729-230-49 | TRANSISTOR 2SC2712-YG | | CN1911±1-564-506-11 | PLUG. CONNECTOR 3 | 3P |
| <re< td=""><td>SISTOR></td><td></td><td>CN1912*1-564-507-11</td><td>PLUG, CONNECTOR PLUG, CONNECTOR</td><td>4P</td></re<> | SISTOR> | | CN1912*1-564-507-11 | PLUG, CONNECTOR PLUG, CONNECTOR | 4P |
| R6503 1-216-097-00 | METAL GLAZE 100K 5% | 1/10W 1/10W | <1/ | ACX> | |
| R6505 1-216-025-00 R6506 1-216-075-00 |) METAL GLAZE 100 5%) METAL GLAZE 12K 5% | 1/10W 1/10W 1/10W | J1911 1-507-806-00 | JACK 1P | |
| R6507 1-216-085-00 R6508 1-216-025-00 | n METAL GLAZE 100 5% | 1/10W | <r < td=""><td>ESISTOR></td><td></td></r <> | ESISTOR> | |
| R6509 1-216-049-00 R6510 1-216-109-00 | O METAL-GLAZE 1K 5% O METAL GLAZE 330K 5% | 1/10W 1/10W | R1911 1-249-420-1 R1912 1-249-423-1 | 1 CARBON 1. 1 CARBON 3. | 8K 5% 1/4W 3K 5% 1/4W |
| R6511 1-216-295-0 R6512 1-216-049-0 | O CONDCTOR, CHIP O METAL GLAZE 1K 5% | 1/10W | R1913 1-249-425-1 R1914 1-249-428-1 | 1 CARBON 4. 1 CARBON 8. | 7K 5% 1/4W 2K 5% 1/4W |
| R6513 1-208-789-1 R6514 1-216-663-1 | 1 METAL CHIP 3.3K O. | 50% 1/10W 50% 1/10W | R1915 1-249-409-1 R1916 1-249-409-1 | | |
| R6515 1-216-675-1 R6516 1-216-049-0 R6517 1-216-675-1 | O METAL GLAZE 1K 5% | 50% 1/10W 1/10W 50% 1/10W | R1917 1-249-409-1 R1918 1-249-409-1 | 1 CARBON 22 1 CARBON 22 | 20 5% 1/4W 20 5% 1/4W |
| R6518 1-216-661-1 | 1 METAL CHIP 2.7K Q. | 50% 1/10W 50% 1/10W | R1919 1-249-418-1 | I CAKBUN I. | 2K 5% 1/4W |
| R6519 1-216-659-1 R6520 1-216-091-0 R6521 1-216-656-1 R6522 1-216-085-0 | O METAL GLAZE 56K 5% 1 METAL CHIP 1.6K 0. | 1/10W 50% 1/10W | <s S1911 1-571-532-2</s | WITCH> | |

| H1 H2 H4 | H1 | H2 | H4 |
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| REF.NO. PART NO. | DESCRIPTION | REMARK | REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|-------------------------|---|--|--------------------------|----------------------|------------------------------|-------------------|
| S1912 1-571-532-21 S1913 1-571-532-21 S1914 1-571-532-21 S1915 1-571-532-21 | SWITCH, TACTIL SWITCH, TACTIL | | | 1-249-417-11 1-249-437-11 1-249-433-11 1-249-433-11 | CARBON CARBON CARBON CARBON | | 5% 5% 5% 5% | 1/4W 1/4W 1/4W 1/4W | |
| *********** | ******** | ******* | R1932 | 1-249-887-11 | CARBON | 33 470K | 5% 5% | 1/4W 1/4W | F |
| *A-1372-069-A | H2 BOARD, COMPLETE (KV | -W28MN11/MH11) | K1933 | 1-247-895-00 <rel< td=""><td></td><td>4/UK</td><td>⊃Æ.</td><td>1/4#</td><td></td></rel<> | | 4/UK | ⊃ Æ. | 1/4# | |
| *A-1372-071-A | H2 BOARD, COMPLETE (KV | /-W32MN11/MH11) | RY1901 | 1-515-833-11 | RELAY | | | | |
| *4 -396-124-01 | HOLDER (E), LED | | | <swi< td=""><td>TCB></td><td></td><td></td><td></td><td></td></swi<> | TCB> | | | | |
| <caf< td=""><td>ACITOR></td><td></td><td>S1921</td><td>1-571-532-21</td><td>SWITCH, TACTI</td><td>L</td><td></td><td></td><td></td></caf<> | ACITOR> | | S1921 | 1-571-532-21 | SWITCH, TACTI | L | | | |
| C1921 1-124-126-00 C1922 1-126-933-11 C1923 1-124-126-00 | ELECT 100MF | 20% 16V 20% 16V 20% 16V | S1924 S1925 | 1-571-532-21 1-571-532-21 | SWITCH, TACTI | IL IL IL | | | |
| < C 01 | NNECTOR> | | 1 | | ********** | | | | |
| CN1921*1-564-506-11 | PLUG, CONNECTOR 3P | | | *A-1372-073-A | H4 BOARD, COI | MPLETE ***** | (KV-W3 | ZMN11/F | iu11) |
| CN1922*1-564-512-11 CN1923*1-564-506-11 CN1924*1-564-507-11 CN1925*1-564-507-11 | PLUG, CONNECTUR 9P PLUG, CONNECTOR 3P PLUG, CONNECTOR 4P | | | *A-1372-075-A | H4 BOARD, COI | | (KV-W2 | 8MN11/) | (H11) |
| CN1926*1-564-506-11 | PLUG, CONNECTOR 3P | | | <cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cap<> | ACITOR> | | | | |
| <di< td=""><td>ODE></td><td></td><td>C1941 C1942 C1943</td><td>1-126-933-11 1-101-004-00 1-126-933-11</td><td>CERAMIC ELECT</td><td>100MF 0.01MF 100MF</td><td></td><td>20% 20%</td><td>167 507 167</td></di<> | ODE> | | C1941 C1942 C1943 | 1-126-933-11 1-101-004-00 1-126-933-11 | CERAMIC ELECT | 100MF 0.01MF 100MF | | 20% 20% | 167 507 167 |
| D1922 8-719-920-66 | DIODE SEL1222R-C DIODE SLR-54VC12 | (KV-W28MN11/MH11) (KV-W32MN11/MH11) (KV-W28MN11/MH11) | C1944 | 1-124-903-11 1-124-903-11 | ELECT | 1MF 1MF | | 20% 20% | 50V 50V |
| D1922 8-719-311-89 D1923 8-719-920-66 | | (KV-W32MN11/MH11) (KV-W28MN11/MH11) | | <c0)< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td></c0)<> | NECTOR> | | | | |
| D1923 8-719-311-89 D1924 8-719-908-03 | DIODE SEL1222R-C DIODE GPOSD | (KV-W32MN11/MH11) (KV-W28MN11/MH11) | CN1941 | • | PLUG, CONNEC | TOR 10P | | | |
| <fe< td=""><td>RRITE BEAD></td><td></td><td>1</td><td></td><td>ODE></td><td></td><td></td><td></td><td></td></fe<> | RRITE BEAD> | | 1 | | ODE> | | | | |
| FB1901 1-410-397-21 FB1902 1-410-397-21 FB1903 1-410-397-21 | FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR | C 1.10H C 1.10H C 1.10H | D1942 D1943 | 8-719-121-24 8-719-121-24 8-719-121-24 | DIODE RD9.1E DIODE RD9.1E DIODE RD9.1E DIODE RD9.1E DIODE RD9.1E | S-L S-L S-L | | | |
| | FERRITE BEAD INDUCTOR | | 1 | <ja< td=""><td>CK></td><td></td><td></td><td></td><td></td></ja<> | CK> | | | | |
| FB1907 1-410-397-2 | FERRITE BEAD INDUCTOR | R 1.10H | J1941 | | TERMINAL BLO | ICK, S 3 | 3P | | |
| | RANSISTOR> | | | <tr< td=""><td>ANSISTOR></td><td></td><td></td><td></td><td></td></tr<> | ANSISTOR> | | | | |
| Q1922 8-729-900-8 Q1923 8-729-119-7 | TRANSISTOR 2SC2603TP- TRANSISTOR DTC114ES TRANSISTOR 2SA1175-HI | FE | Q1941 | 8-729-119-78 | TRANSISTOR 2 | 2SC2785 | HFE | | |
| Q1924 8-729-119-7 Q1925 8-729-119-7 | 8 TRANSISTOR 2SC2785-H 8 TRANSISTOR 2SC2785-H | r e F e | | <re< td=""><td>ESISTOR></td><td></td><td></td><td></td><td></td></re<> | ESISTOR> | | | | |
| - | ESISTOR> | | R1942 R1943 | 1-247-804-11 1-249-422-11 1-247-804-11 | L CARBON L CARBON | 75 2.7K 75 | 5% | 1/4W 1/4W 1/4W | |
| R1921 1-249-413-1 R1922 1-249-414-1 | 1 CARBON 470 1 CARBON 560 | 5% 1/4W 5% 1/4W | R1944 R1946 | 1-247-883-00 1-247-883-00 | CARBON CARBON | 150K 150K | 5% 5% | 1/4W 1/4W | |
| R1923 1-249-415-1 R1924 1-249-416-1 R1925 1-249-417-1 | 1 CARBON 680 1 CARBON 820 1 CARBON 1K | 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W | ! | 1-249-429-11 | 1 CARBON | 10K | 5% | 1/4₩ | |
| R1926 1-249-425-1 | | 5% 1/4W | ***** | ******** | ****** | | | | |
| | | | | | | | | | |



| | | | | | | | | | | . [| | _ |
|--------------------|--|--------------------------------|---------------------------|--|-------------|----------------------|--|----------------------------------|--------------------------|------------|----------------------------|---|
| REF.NO. PA | ART NO. | DESCRIPTION | | | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | REMARK | |
| * A- | -1380-478-A | K BOARD, COMPL | ETE (KV *** | -W32MN11/M | H11) | | *A-1388-176-A | J BOARD, COM | PLETE | | | |
| *A- | -1380-480-A | K BOARD, COMPL | ETE (KV | -W28MN11/M | H11) | | cc. | PACITOR> | | | | |
| 4- | -382-854-11 | SCREW (M3X10). | P, SW | (+) | | C430 | 1-124-126-00 | | 47MF | 20% | 16V | |
| | < CAPA | CITOR> | | | | C431 C432 | 1-124-126-00 1-124-126-00 | ELECT ELECT | 47MF 47MF | 20% 20% | 16V 16V | |
| C3201 1: | -126-964-11 | | OMF | 20% | 50V | C433 C434 | 1-163-031-11 1-163-031-11 | CERAMIC CHIP | 0.01MF 0.01MF | | 50Y 50Y | |
| C3202 1 | -126-964-11 -124-126-00 | ELECT 1 | OMF 17MF | 20% 20% | 50V 16V | C455 | 1-164-005-11 | CERAMIC CHIP | | 5% | 25¥ 50¥ | |
| C3204 1 C3205 1 | -124-126- 0 0 -12 6 -953-11 | | 17MF 2200MF | 20% 20% | 16V 35V | C456 C457 C458 | 1-163-257-11 1-164-005-11 1-124-126-00 | CERAMIC CHIP | 0.47MF 47MF | 20% | 25V 16V | |
| C3206 1 | -136-165-00 -126-953-11 | FILM (|).1MF 2200MF | 5% 20% | 50V 35V | C459 | 1-163-257-1 | | | 5% | 50 Y | |
| C3208 1 | -136-165-00 -136-165-00 | FILM (|). 1MF). 1MF | 57 57 57 | 50V 50V | C460 C901 | 1-126-103-11 | CERAMIC CHIP | 0.01MF 470MF | 20% | 50V 16V | |
| C3211 1 | -136-165-00 | FILM | O. IMF | | 50 Y | C902 C903 | 1-124-903-11 1-124-903-11 | L ELECT L ELECT | 1MF | 20% 20% | 50V 50V | |
| C3214 1 | -124-903-11 | ELECT | imf | 20% | 50 V | C904 | 1-124-903-1 | | IMF | 20% 20% | 50 V 50 V | |
| | <con< td=""><td>NECTOR></td><td></td><td></td><td></td><td>C905 C906 C907</td><td>1-124-903-1 1-124-903-1 1-101-004-0</td><td>1 ELECT</td><td>1MF 1MF 0.01MF</td><td>202</td><td>50V 50V</td><td></td></con<> | NECTOR> | | | | C905 C906 C907 | 1-124-903-1 1-124-903-1 1-101-004-0 | 1 ELECT | 1MF 1MF 0.01MF | 202 | 50 V 50 V | |
| CN3201*1 | -564-508-11 | PLUG, CONNECT PLUG, CONNECT | OR SP | | | C908 | 1-126-933-1 1-126-933-1 | t ELECT | 100MF 100MF | 20% 20% | 16 V 16 V | |
| CN3203*1 | 1-564-509-11 | PLUG, CONNECT | OR 6P | | | C910 | 1-124-126-0 | D ELECT | 47MF | 20% | 16 V | |
| | <010 | DE> | | | | C911 C912 | 1-124-126-0 1-164-005-1 | D ELECT 1 CERAMIC CHIP | 47MF 0.47MF | 20% | 16V 25V | |
| D3201 8 | | DIODE RD5.1ES | B1 | | | C913 | 1-163-031-1 1-124-126-0 | | 0.01MF 47MF | 20% | 50 V 16 V | |
| | | | | | | C915 | 1-163-031-1 | | 0.01MF 0.01MF | | 50 V 50 V | |
| | <01> | | | | | C916 C917 C918 | 1-101-004-0 1-124-903-1 1-124-903-1 | 1 ELECT | 1MF 1MF | 20% 20% | 50 V 50 V | |
| 103201 | 8-759-190-89 | IC 10A7265 | | | | C919 | 1-124-903-1 | | ÎMF | 20% | 50¥ | |
| | | NSISTOR> | ٠ | | | C920 C921 | 1-124-903-1 1-126-233-1 | 1 ELECT | 1MF 22MF | 20% 20% | 50Y 50Y | |
| Q3201 Q3202 | 8-729-119-78 8-729-119-78 | TRANSISTOR 25 TRANSISTOR 25 | C2785-H | ife ife | | C922 C923 C924 | 1-126-233-1 1-163-031-1 | 1 ELECT 1 CERAMIC CHII | 22MF P 0.01MF | 20% | 50Y 50Y | |
| 43203 | 8-729-119-78 | TRANSISTOR 25 | C2785-H | IFE | N11/MH11) | 1 | 1-101-004-0 | | 0.01MF | 20% | 50 V 50 V | |
| | | | | | | C925 | 1-126-233-1 1-163-031-1 1-126-233-1 | 1 CERAMIC CHI | 22MF P 0.01MF 22MF | 20% | 50V 50V | |
| 72004 | | SISTOR> | 12K | 5% 1/4W | 1 | C927 C928 C929 | 1-124-126-0 1-124-126-0 | O ELECT | 47MF 47MF | 20% 20% | 16V 16V | |
| R3202 | 1-249-430-11 1-249-421-11 1-249-414-11 | CARBON CARBON | 2.2K | 5% 1/4W 5% 1/4W | J | C930 | 1-164-005-1 | | | | 25 V | |
| R3204 | 1-249-432-11 1-249-414-11 | CARBON CARBON | 2.2K 560 18K 560 | 5% 1/4W 5% 1/4W | } | C931 C932 | 1-126-103-1 1-124-126-0 | O ELECT | 470MF 47MF | 20% 20% | 16V 16V | |
| R3206 | 1-249-432-11 | | 18K | 5% 1/49 | j | C933 C935 | 1-164-005-1 1-126-103- | 11 CERAMIC CHI 11 ELECT | P 0.47MF 470MF | 20% | 25 V 16 V | |
| R3207 R3208 | 1-249-430-11 1-249-421-11 | CARBON | 12K 2.2K | 5% 1/41 | | C936 C937 | 1-163-243- 1-126-933- | | P 47PF 100MF | 5% 20% | 50V 16V | |
| R3209 R3210 | 1-216-357-00 1-216-357-00 | METAL OXIDE METAL OXIDE | 4.7 4.7 | 5% 1W 5% 1W | F | C938 | 1-124-126- | | 47MF | 20% | 167 | |
| R3211 R3212 | 1-249-426-11 1-249-429-11 | | 5.6K 10K | 5% 1/4 ¹ 5% 1/4 ¹ | | | < | CONNECTOR> | | | | |
| R3214 R3219 | 1-249-426-11 | CARBON | 5.6K 3.3K | 5% 1/4 5% 1/4 | W | | 1 1-695-301- | | | BOARD 40P | | |
| R3220 | 1-249-433-11 | CARBON | 22K | 5% 1/4 | | CN90 | 2 *1-564-525- 3 1-564-517- | 11 PLUG, CONNE 11 PLUG, CONNE | | | | |
| R3222 R3223 | 1-249-417-11 1-249-437-11 1-249-441-11 | CARBON | 1K 47K 100K | 5% 1/4 5% 1/4 5% 1/4 | W | | < | DIODE> | | | | |
| R3224 ***** | | | | | | ** D901 | | 24 DIODE RD9. | IES-L | | | |
| 1.7 | | | | | | | | | | | | |

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|---|--------------------------------------|---|---|--------|--------------------------------------|--|--|---|----------------------------|--|----------|
| | REF.NO. | PART NO. | DESCRIPTION | REMARK | REF.NO. | PART NO. | DESCRIPTION | | | | REMARK |
| | D902 D903 D904 D905 D906 | 8-719-121-24 8-719-121-24 | DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L | | R430 R431 R432 | <pre></pre> | | 1K 10K 1K 470 | 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | D907 D908 D909 D910 D911 | 8-719-121-24 8-719-121-24 8-719-121-24 | DIODE RD9.1ES-L DIODE RD9.1ES-L | | R434 R435 R436 R437 R438 | 1-216-049-00 1-216-049-00 1-216-057-00 | | 2.2K 4.7K 1K 1K 2.2K 470 | | 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | D912 D915 D916 D917 D919 | 8-719-121-24 8-719-121-24 8-719-121-24 | DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L DIODE RD9.1ES-L | | R440 R441 R442 R444 | 1-216-041-00 1-216-023-00 1-216-057-00 1-216-041-00 1-216-689-11 1-216-689-11 | METAL GLAZE | 82 2.2K 470 39K 39K | | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | D920 D921 D922 D923 D924 | 8-719-121-24 8-719-121-24 8-719-121-24 8-719-121-24 | DIODE RD9. 1ES-L DIODE RD9. 1ES-L DIODE RD9. 1ES-L DIODE RD9. 1ES-L DIODE RD9. 1ES-L DIODE RD9. 1ES-L | | R449 R450 R451 R452 R453 | 1-216-689-11 1-216-689-11 1-216-049-00 1-216-049-00 | METAL GLAZE METAL GLAZE METAL GLAZE | | 57 57 57 57 57 | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | D930 D931 | 8-719-121-24 8-719-800-76 | DIODE 1SS226 | | R454 R901 R902 R903 R904 | 1-216-022-00 1-216-021-00 1-216-021-00 1-216-113-00 1-216-113-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | 1C901 | 8-759-100-96 8-752-068-46 | IC CXA18555 | ÷ | R905 R906 R907 R908 R909 | 1-216-113-00 1-216-113-00 1-216-689-11 1-216-689-11 1-216-022-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 470K 470K 39K 39K 75 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | J901 J902 | 1-573-967-11 1-573-968-11 <co< td=""><td>BLOCK, (S) TERMINAL BLOCK, (S) TERMINAL</td><td>!</td><td>R910 R911 R912 R913 R914</td><td>1-216-022-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00</td><td>METAL GLAZE METAL GLAZE</td><td>75 100 100 100 100</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></co<> | BLOCK, (S) TERMINAL BLOCK, (S) TERMINAL | ! | R910 R911 R912 R913 R914 | 1-216-022-00 1-216-025-00 1-216-025-00 1-216-025-00 1-216-025-00 | METAL GLAZE METAL GLAZE | 75 100 100 100 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | |
| | L902 | | INDUCTOR 100UH ANSISTOR> | | R915 R916 R917 | 1-216-025-00 1-216-069-00 1-216-022-00 | METAL GLAZE | | 5% 5% 5% 5% | 1/10W 1/10W 1/10W | |
| | 0420 0421 | 8-729-230-49 | TRANSISTOR 2SC2712-YG TRANSISTOR 2SC2712-YG | | R918 R919 | 1-216-022-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | | | 1/10W 1/10W 1/10W | |
| | Q422 Q423 Q424 | 8-729-230-49 | TRANSISTOR 25C2712-YG TRANSISTOR 25C2712-YG TRANSISTOR 25C2712-YG TRANSISTOR 25C2712-YG TRANSISTOR 25C2712-YG | | R921 R922 R923 R924 | 1-216-025-00 1-216-025-00 1-216-101-00 1-216-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE | 100 100 100 150K 100 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | |
| | Q901 Q902 Q903 Q905 | 8-729-230-49 8-729-230-49 8-729-230-49 8-729-230-49 | TRANSISTOR 25C2712-1G TRANSISTOR 25C2712-YG TRANSISTOR 25C2712-YG | | R925 R926 R927 R928 R929 | 1-216-101-00 1-216-065-00 1-216-065-00 1-216-022-00 1-216-069-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 150K 4.7K 4.7K 75 6.8K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | } } |
| | Q906 Q907 Q908 Q909 Q910 | 8-729-216-2 | 9 TRANSISTON 2SC2712-YG 9 TRANSISTOR 2SC2712-YG 9 TRANSISTOR 2SC2712-YG 2 TRANSISTOR 2SA1162-G | | R930 R931 R932 R933 | 1-216-069-00 1-216-025-00 1-216-025-00 1-216-049-00 | METAL GLAZE D METAL GLAZE D METAL GLAZE D METAL GLAZE | 6.8K 100 100 1K | 5% 5% 5% 5% 5% | 1/100 1/100 1/100 1/100 1/100 | i i |
| | Q911 Q912 Q914 Q915 Q916 | 8-729-230-4 8-729-230-4 | 9 TRANSISTOR 2SC2712-YG 9 TRANSISTOR 2SC2712-YG 9 TRANSISTOR 2SC2712-YG | | R934 R936 R937 R938 R939 | 1-216-049-0 1-216-065-0 1-216-053-0 1-216-101-0 1-216-051-0 | O METAL GLAZE O METAL GLAZE O METAL GLAZE | 150K 1.2K | 5% 5% 5% 5% | 1/100 1/100 1/100 1/100 | W W |
| | Q 917 Q 918 | 8-729-900-5 8-729-216-2 | | | R940 R941 R942 | 1-216-101-0 1-216-065-0 | O METAL GLAZE | 150K 4.7K | 5% 5% 5% | 1/10 1/10 1/10 | W . W |
| | | | | | | | | | | | |

SONY. SERVICE MANUAL

AG-1 chassis

| MODEL | COMMANDER | DEST. | CHASSIS NO. | MODEL | COMMANDE | R DES | |
|-----------|-----------------|-------|-------------|------------|----------|-------|------------|
| KV-W28MH1 | 1 RM-850 | HK | SCC-H23B-A | KV-W32MH11 | RM-850 | HK | SCC-H23A-A |
| KV-W28MN1 | 1 RM-850 | GE | SCC-H22A-A | KV-W32MN11 | RM-850 | GE | SCC-H22B-A |
| | Section 1 | | | KV-W32MH11 | RM-850 | WB | SCC-H24A-A |

CORRECTION-1

: Corrected partion

File this correction with the Service manul.

SECTION 2 DISASSEMBLY

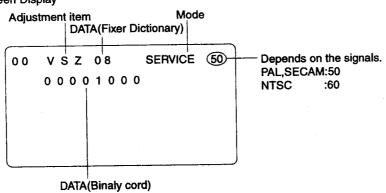
2-8.EXTENSION CABLE AND BOARD(See page17)

| DESCRIPTION | PART No. |
|-----------------------|--------------|
| Extension Board 40pin | 1-589-554-11 |

SECTION 4 CIRCUIT ADJUSTMENTS

4-1.ADJUSTMENTS WITH COMMANDER(See page26)

The screen Display



*Input data are different according to model.

| Model | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|------------|---|---|---|---|---|---|---|---|
| KV-W28MH11 | ٥ | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| KV-W28MN11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| KV-W32MH11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| KV-W32MN11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |



* Please file according to model size.

. . . .

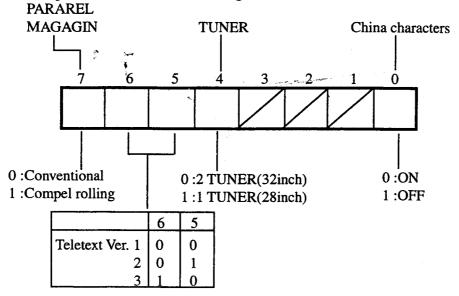


SECTION 4 CIRCUIT ADJUSTMENTS

4-2.ADJUSTMENT METHOD(See page27)

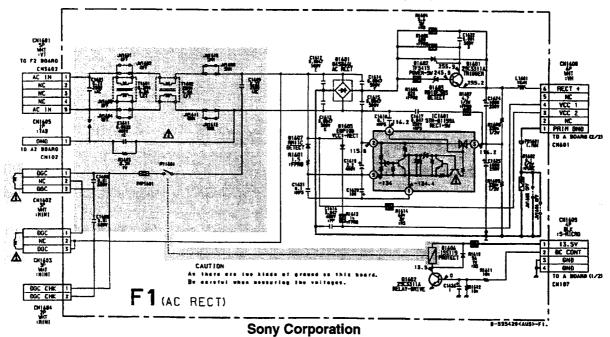
Service data Note

- 1.Data renge area: 00-09,0A-0F,10-19,1A-1F,20-29,2A-2F,30-39,3A-3F.
- 2.Standard data : Those are the standard data values written on the microprocessor. There for the data values of the modes are respectively stored in the memory.
 - In case of a device replacement, adjustment by rewriting the data value is necessary for some items afterwards.
- OP 0 :Set the option to item.(each bit=1 option)
- OP 1: Input data are different according to model.



SECTION 5 DIAGRAM

5-3.PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS(See page56)F1 Board.



9-965-542-91

Consumer A&V Products Company TV & Display Products Div.

Englis 95IE0213 inted in JAPA © 1995.

The components identified by shading and mark ∆ are critical for safety. Replace only with part number specified.

| REF.NO. | PART NO. | DESCRIPTION | | REMARK | REF.NO. PART NO. | DESCRIPTION | REMARK |
|--|---|---|----------------------------|---|--|---|--|
| R943 R945 R946 R947 R949 | 1-216-022-00 1-216-049-00 1-216-093-00 1-216-067-00 1-216-295-00 | METAL GLAZE 75 METAL GLAZE 1K METAL GLAZE 68K METAL GLAZE 5.6K CONDCTOR, CHIP | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W | ACCESSO | PRIES AND PACKING MATERIA | ILS |
| R950 R951 R952 R953 R955 | 1-216-067-00 1-216-049-00 1-208-785-11 1-216-184-00 1-216-295-00 | METAL GLAZE 5.6K METAL GLAZE 1K METAL CHIP 1.3K METAL GLAZE 270 CONDCTOR, CHIP | 5% 5% 0.50% 5% | 1/10W 1/10W 1/10W 1/8W | 3-759-695-11 *4-032-113-01 *4-045-489-01 *4-045-792-01 *4-045-490-01 | MANUAL, INSTRUCTION REINFORSEMENT (KY-W32) INDIVIDUAL CARTON (KY- INDIVIDUAL CARTON (KY- CUSHION (UPPER) (ASSY) | -W28MN11/MH11) -W32MN11/MH11) |
| R956 R962 R963 R964 R965 | 1-216-059-00 1-216-059-00 1-216-022-00 1-216-073-00 1-216-073-00 | METAL GLAZE 2.7K METAL GLAZE 2.7K METAL GLAZE 75 METAL GLAZE 10K METAL GLAZE 10K | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | The second second | CUSHION (LOWER) (ASSY) BOARD, TOP (KV-W32MN11, TRAY (KV-W28MN11/MH11) | (KV-W32MN11/MH11) (KV-W32MN11/MH11) /MH11) |
| R966 R968 R969 R972 | 1-216-073-00 1-216-059-00 1-216-022-00 1-216-025-00 1-216-025-00 | METAL GLAZE 10K METAL GLAZE 2.7K METAL GLAZE 75 METAL GLAZE 100 METAL GLAZE 100 | 5% 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | *4-046-791-01 | TRAY (KV-W32MN11/MB11) BAG, PROTECTION JOINT | |
| R973 R976 R977 R979 | 1-216-021-00 1-216-113-00 1-216-113-00 | METAL GLAZE 68 METAL GLAZE 470K METAL GLAZE 470K | 5% | 1/10W 1/10W 1/10W | 1-467-983-11 | REMOTE COMMANDER ************************************ | 50) |
| R980 R982 R983 | 1-216-049-00 1-216-113-00 1-216-049-00 | METAL GLAZE 1R METAL GLAZE 470K METAL GLAZE 1K | 5% 5% 5% | 1/10W 1/10W 1/10W | 9-905-614-01 | COVER, POCKET (FOR RM- | 850) |
| R985 R986 R987 R988 | 1-216-059-00 1-216-049-00 1-216-033-00 1-216-033-00 | METAL GLAZE 2.7K METAL GLAZE 1K METAL GLAZE 220 METAL GLAZE 220 | 5% 5% 5% 5% | 1/10W 1/10W 1/10W 1/10W 1/10W | 1-466-779-11 | ADAPTOR, CHANGE ************************************ | MN11/W32MN11) |
| R989 R990 R991 R992 R993 | 1-216-174-00 1-216-176-11 1-216-049-00 1-216-049-00 1-216-097-00 | METAL GLAZE 100 METAL GLAZE 120 METAL GLAZE 1K METAL GLAZE 1K METAL GLAZE 100K | 5% 5% 5% | 1/8W 1/8W 1/10W 1/10W 1/10W | 1-466-780-11 | ADAPTOR, CHANGE (KV-W28 ADAPTOR, CHANGE (KV-W28 | BMN11/W32MN11) |
| R994 | 1-216-083-00 | METAL GLAZE 27K | 5% | 1/10₩ | | | |
| ***** | ********** | MISCELLANEOUS | ***** | ********** | | | |
| | A 1-409-952-11 A 1-409-953-11 A 1-409-954-11 | COIL, DEMAGNETIZA COIL, DEMAGNETIZA COIL, DEMAGNETIZA COIL, DEMAGNETIZA NECK ASSY, PICTUR | TION (K FION (K | V-W28MN11/MH11) V-W32MN11/MH11) V-W32MN11/MH11) | | | |
| داری اداری از این از این از این از این از این از این از این از این از این از این از این از این از این از این ا از این از این از این از این از این از این از این از این از این از این از این از این از این از این از این از ای | 1-452-724-11 1-504-121-51 1-504-771-11 A 1-540-006-12 1-543-653-11 | SPEAKER (5CM) SPEAKER (12CM) CAP ASSY, HIGH-VO | TAGE (VISIO) | TYPE) | | | |
| | *1-555-110-00 *1-558-539-21 1-563-204-11 1-569-008-11 | CABLE, P-P SOCKET, ANTENNA (| i) PAL/SE(I) | (V-W32MN11/MH11) (V-W28MN11/MH11) (AM) (V-W28MN11/MH11) | [] ; | | |
| | 1-900-071-3 1-900-138-0 & 8-451-449-1 & 8-451-460-1 & 8-735-023-0 | | (((W7 6 | KV-W28MN11/MH11) KV-W32MN11/MH11) KV-W32MN11/MH11 KV-W32MN11/MH11 KXS010X) W32MN11/MH11) | Maria de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión de | | |
| Le de Mily P | ▲ 8-737-756-0 | 5 PICTURE TUBE 28CI | 1 (W66 (| LCAO10X) KV-W28MN11/MH11 | | | |